II. Influent and Effluent Data Summary

The results of all analyses performed on the WWTP influent and effluent are summarized in tables with monthly and annual averages (and in some cases annual totals) calculated. Graphs of monthly averages are presented.

A. Influent And Effluent Data Summaries
B. Influent And Effluent Graphs
C. Daily Values Of Selected Parameters
D. Toxicity Bioassays
E. 6-Year Tables.

Mass Emissions of Effluent Using 2002 Monthly Averages

DISCHARGE SPECIFICATIONS from NPDES Permit No. CA0107409/RWQCB Order No. R-2002-0025 effective on September 13, 2002 with limits on pollutant discharges.				
Constituent/Property	**Benchmarks (mt/yr)**	**2002 Mass Emissions** (mt/yr)[1]	**2002 Concentration**	**Units**
Flow (MGD)			***168.8***	***MGD***
Total Suspended Solids	**13,995**[2]	10,114	43.5	mg/L
BOD	**B**	21,763	93.6	mg/L
Arsenic	0.88	0.30	1.29	ug/L
Cadmium	1.4	0.09	0.4	ug/L
Chromium	14.2	0	0	ug/L
Copper	26	18	77.5	ug/L
Lead	14.2	0	0	ug/L
Mercury	0.19	0	0	ug/L
Nickel	11.3	0	0	ug/L
Selenium	0.44	0.27	1.16	ug/L
Silver	2.8	0.19	0.8	ug/L
Zinc	18.3	6.5	28	ug/L
Cyanide	1.57	0.81	0.0035	mg/L
Residual Chlorine	--			
Ammonia	8018	6,487	27.9	mg/L
Non-Chlor. Phenols	2.57	2.65	11.4	ug/L
Chlorinated Phenols	1.73	0.00	0	ug/L
Endosulfan	0.006	0.00	0	ng/L
Endrin	0.008	0.00	0	ng/L
hexachlorocyclohexanes *(HCH)	0.025	0	7	ng/L
* (all as Lindane, the gamma isomer)				
Acrolein	17.6	0.00	0	ug/L
Antimony	56.6	4.0	17	ug/L
Bis(2-chloroethoxy) methane	1.5	0.00	0	ug/L
Bis(2-chloroisopropyl) ether	1.61	0.00	0	ug/L
Chlorobenzene	1.7	0.00	0	ug/L
Chromium (III)	--	--	--	
di-n-butyl phthalate	1.33	0.00	0	ug/L
dichlorobenzenes	2.8	0.00	0	ug/L
1,1-dichloroethylene	0.79	0.00	0	ug/L
Diethyl phthalate	6.23	0.53	2.3	ug/L
Dimethyl phthalate	1.59	0.00	0	ug/L
4,6-dinitro-2-methylphenol	6.8	0.00	0	ug/L
2,4-dinitrophenol	11.9	0.00	0	ug/L
Ethylbenzene	2.04	0.00	0	ug/L
Fluoranthene	0.62	0.00	0	ug/L
Hexachlorocyclopentadiene	**B**	0.00	0	ug/L
Nitrobenzene	2.07	0.00	0	ug/L
Thallium	36.8	0.00	0	ug/L
Toluene	3.31	0.70	3	ug/L
1,1,2,2-tetrachloroethane	1.95	0.00	0	ug/L
Tributyltin	0.001	0.00	0	ug/L
1,1,1-trichloroethane	2.51	0.00	0	ug/L
1,1,2-trichloroethane	1.42	0.00	0	ug/L
Acrylonitrile	5.95	0.00	0	ug/L

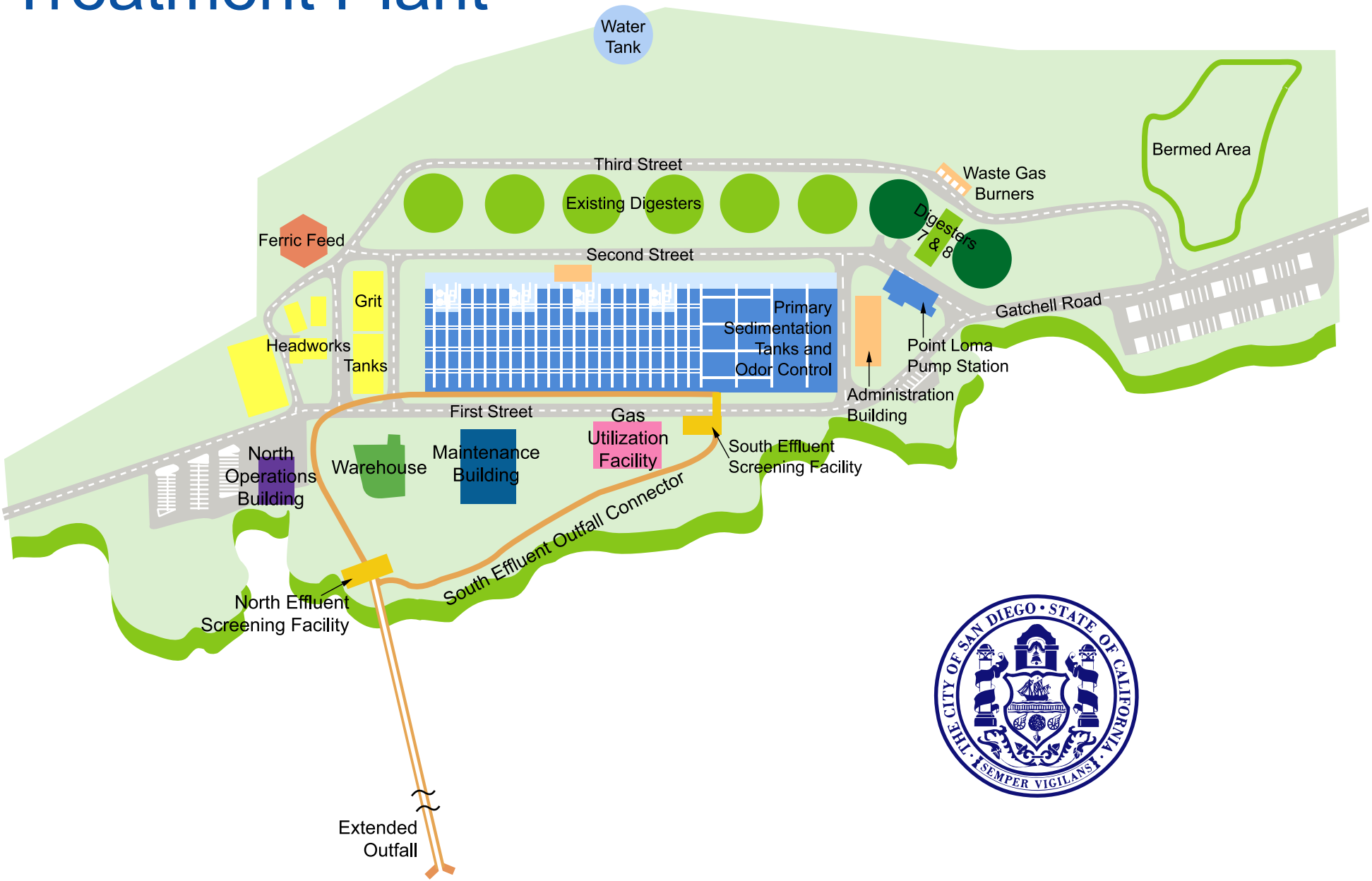
DISCHARGE SPECIFICATIONS from NPDES Permit No. CA0107409/RWQCB Order No. R-2002-0025 effective on September 13, 2002 with limits on pollutant discharges.				
Constituent/Property	**Benchmarks (mt/yr)**	**2002 Mass Emissions (mt/yr)[1]**	**2002 Concentration**	**Units**
Aldrin	0.006	0.00	0	ng/L
Benzene	1.25	0.00	0	ug/L
Benzidine	12.5	0.00	0	ug/L
Beryllium	1.42	0.00	0	ug/L
Bis(2-chloroethyl)ether	1.61	0.00	0	ug/L
Bis(2-ethylhexyl)phthalate	2.89	0.98	4.2	ug/L
Carbon Tetrachloride	0.79	0.00	0	ug/L
Chlordane	0.014	0.00	0	ng/L
Chloroform	2.19	1.26	5.4	ug/L
DDT	0.043	0.00	0	ng/L
1,4-dichlorobenzene	1.25	0.05	0.2	ug/L
3,3-dichlorobenzidine	4.67	0.00	0	ug/L
1,2-dichloroethane	0.79	0.00	0	ug/L
Dichloromethane (methylene chloride)	13.7	0.67	2.9	ug/L
1,3-dichloropropene	1.42	0.00	0	ug/L
Dieldrin	0.011	0.00	0	ng/L
2,4-dinitrotoluene	1.61	0.00	0	ug/L
1,2-diphenylhydrazine	1.52	0.00	0	ug/L
Halomethanes	5.86	0.33	1.4	ug/L
Heptachlor	0.001	0.00	0	ng/L
Heptachlor epoxide	0.024	0.00	0	ng/L
Hexachlorobenzene	0.54	0.00	0	ug/L
Hexachlorobutadiene	0.054	0.00	0	ug/L
Hexachloroethane	1.13	0.00	0	ug/L
Isophorone	0.71	0.00	0	ug/L
N-nitrosodimethylamine	0.76	0.00	0	ug/L
N-nitrosodiphenylamine	1.47	0.00	0	ug/L
PAHs	15.45	0.00	0	ug/L
PCBs	0.275	0.00	0	ng/L
TCDD equivalents	--	0.00	0	pg/L
Tetrachloroethylene	4	0.07	0.3	ug/L
Toxaphene	0.068	0.00	0	ng/L
Trichloroethylene	1.56	0.00	0	ug/L
2,4,6-trichlorophenol	0.96	0.00	0	ug/L
Vinyl Chloride	0.4	0.00	0	ug/L

[1] Metric tons of mass emissions is calculated assuming the density of effluent is 1. The mean constituent value and mean daily flow value over the year is used to compute the mass emissions, assuming that constant concentration over 365 days.
[2] Total Suspended Solids (TSS)- The discharger shall achieve a mass emission of TSS of no greater than 13,995 mt/yr; this requirement shall be effective through December 31, 2005. Effective January 1, 2006, the discharger shall achieve a mass emission of TSS of no greater than 13,599 mt/yr.

A. Influent and Effluent Data Summaries.

The results of all analyses performed on the WWTP influent and effluent are summarized in tables with monthly and annual averages (and in some cases annual totals) calculated.

Point Loma Wastewater Treatment Plant



POINT LOMA WASTEWATER TREATMENT PLANT

SEWAGE ANNUAL

From 01-JAN-2002 To 31-DEC-2002

Biochemical Oxygen Demand Concentration
(24-hour composite)

	Flow	Daily Influent Value (mg/L)	Daily Influent Value (lbs/Day)	Daily Effluent Value (mg/L)	Daily Effluent Value (lbs/Day)	Percent Removal BOD (%)
JANUARY -2002	171.0	257	366518	95	135483	63.0
FEBRUARY -2002	170.4	257	365232	107	152062	58.4
MARCH -2002	171.8	261	373964	94	134684	64.0
APRIL -2002	171.4	266	380241	99	141518	62.8
MAY -2002	165.1	263	362134	89	122547	66.2
JUNE -2002	168.5	268	376618	84	118044	68.7
JULY -2002	168.2	280	392781	90	126251	67.9
AUGUST -2002	165.8	264	365052	89	123067	66.3
SEPTEMBER-2002	167.4	260	362990	84	117274	67.7
OCTOBER -2002	166.6	270	375150	95	131997	64.8
NOVEMBER -2002	168.8	276	388551	105	147818	62.0
DECEMBER -2002	171.3	266	380019	94	134292	64.7
Average	168.9	266	374104	94	132086	64.7

Total Suspended Solids Concentration
(24-hour composite)

	Flow	Daily Influent Value (mg/L)	Daily Influent Volatile (mg/L)	Percent VSS of TSS (%)	Daily Influent Value (lbs/Day)	Daily Effluent Value (mg/L)	Daily Effluent Volatile (mg/L)	Percent VSS of TSS (%)
JANUARY -2002	171.0	281	231	82.2	400745	41	31	75.6
FEBRUARY -2002	170.4	260	216	83.1	369495	47	35	74.5
MARCH -2002	171.8	270	220	81.5	386859	41	30	73.2
APRIL -2002	171.4	283	235	83.0	404542	42	31	73.8
MAY -2002	165.1	290	238	82.1	399311	43	31	72.1
JUNE -2002	168.5	301	246	81.7	422992	47	35	74.5
JULY -2002	168.2	318	260	81.8	446087	52	38	73.1
AUGUST -2002	165.8	293	238	81.2	405152	46	34	73.9
SEPTEMBER-2002	167.4	290	236	81.4	404874	39	28	71.8
OCTOBER -2002	166.6	287	233	81.2	398770	39	27	69.2
NOVEMBER -2002	168.8	291	234	80.4	409667	42	30	71.4
DECEMBER -2002	171.3	283	231	81.6	404306	45	32	71.1
Average	168.9	287	235		404400	44	32	

Annual Mass Emissions are calculated from monthly averages of flow and BOD (or TSS), whereas monthly report average mass emissions are calculated from average daily mass emissions.

POINT LOMA WASTEWATER TREATMENT PLANT
Daily Averages
Annual Systemwide BOD Removals

From 01-JAN-2002 To 31-DEC-2002

Mass Emissions are in pounds/day.

	Pt. Loma Influent Mass Emission	PS64 Influent Mass Emission	Penasquitos Influent Mass Emission	Return Stream Mass Emission	Pt. Loma Effluent Mass Emission	Monthly Systemwide Percent Removal	Pt. Loma Daily Percent Removal
JANUARY	366518	27217	12611	21962	135483	64.8	63.0
FEBRUARY	365232	28683	12745	16570	152062	61.0	58.4
MARCH	373964	29710	8933	9178	134684	66.5	64.0
APRIL	380241	32856	7876	11757	141518	65.5	62.8
MAY	362134	27554	14266	9681	122547	68.6	66.2
JUNE	376618	27435	13968	16224	118044	70.3	68.7
JULY	392781	28223	13903	35786	126251	68.2	67.9
AUGUST	365052	33580	6443	11291	123067	68.7	66.3
SEPTEMBER	362990	34276	11730	8413	117274	70.6	67.7
OCTOBER	375150	34190	14817	7362	131997	68.3	64.8
NOVEMBER	388551	28594	15183	9127	147818	65.1	62.0
DECEMBER	380019	35803	17326	9979	134292	68.3	64.7
Average	374104	30677	12483	13944	132086	67.2	64.7

Annual Systemwide TSS Removals
Daily Averages
From 01-JAN-2002 To 31-DEC-2002

Mass Emissions are in pounds/day.

	Pt. Loma Influent Mass Emission	PS64 Influent Mass Emission	Penasquitos Influent Mass Emission	Return Stream Mass Emission	Pt. Loma Effluent Mass Emission	Monthly Systemwide Percent Removal	Pt. Loma Daily Percent Removal
JANUARY	400745	25166	15407	30675	58472	85.8	85.4
FEBRUARY	369495	28817	16842	15321	66793	83.3	81.9
MARCH	386859	28664	12035	15929	58745	85.5	84.8
APRIL	404542	32227	9290	16730	60038	86.0	85.2
MAY	399311	27939	17881	16427	59208	86.4	85.2
JUNE	422992	27176	18909	31052	66049	84.8	84.4
JULY	446087	27196	18426	68560	72945	82.6	83.6
AUGUST	405152	34517	9345	23292	63608	84.9	84.3
SEPTEMBER	404874	43204	15515	17499	54449	87.7	86.6
OCTOBER	398770	32249	18221	14608	54188	87.4	86.4
NOVEMBER	409667	26322	18165	22493	59127	86.0	85.6
DECEMBER	404306	38307	18349	20292	64289	85.5	84.1
Average	404400	30982	15699	24407	61493	85.5	84.8

During the month of January 2002, the Return Stream was sampled from a single sample point. The mass emission from the Return Stream was calculated using the flow from that sample point and the BOD/TSS data obtained from that sample point. From February to December 2002, the Return Stream sample point was discontinued. The mass emission from the Return Stream was then calculated using the data from the four NCWRP sources (plant drain, filter backwash, excess primary effluent, and disinfected final effluent that is not reclaimed) and one MBC source (centrate from the dewatering process)that are diverted to the Return Stream.

POINT LOMA WASTEWATER TREATMENT PLANT

From 01-JAN-2002 To 31-DEC-2002

Influent to Plant
(PLR)

	pH	Settleable Solids (ml/L)	Biochemical Oxygen Demand (mg/L)	Oil & Grease (mg/L)	Temperature (C)
JANUARY -2002	7.39	8.38	257	27.7	21.2
FEBRUARY -2002	7.34	8.59	257	27.2	20.8
MARCH -2002	7.34	9.15	261	28.2	21.7
APRIL -2002	7.33	10.00	266	32.6	22.7
MAY -2002	7.33	9.44	263	32.8	23.5
JUNE -2002	7.32	9.81	268	35.8	24.9
JULY -2002	7.37	12.60	280	37.0	26.3
AUGUST -2002	7.42	11.20	264	37.6	26.6
SEPTEMBER-2002	7.40	10.60	260	32.3	26.7
OCTOBER -2002	7.37	9.94	270	29.3	25.7
NOVEMBER -2002	7.29	9.99	276	33.7	24.5
DECEMBER -2002	7.23	8.84	266	33.3	22.4
Average	7.34	9.9	266	32.3	23.9

Effluent to Ocean Outfall
(PLE)

	pH	Settleable Solids (ml/L)	Biochemical Oxygen Demand (mg/L)	Oil & Grease (mg/L)	Temperature (C)	Floating Particulates (mg/L)	Turbidity (NTU)
JANUARY -2002	7.29	0.1	95	9.8	21.5	<0.10	42
FEBRUARY -2002	7.25	0.1	107	11.9	21.1	0.13	48
MARCH -2002	7.31	0.1	94	10.2	21.9	<0.10	45
APRIL -2002	7.30	0.1	99	11.0	22.7	<0.10	43
MAY -2002	7.28	0.2	89	8.9	23.8	<0.10	43
JUNE -2002	7.26	0.2	84	9.5	25.1	0.11	45
JULY -2002	7.27	0.3	90	9.2	26.4	0.13	48
AUGUST -2002	7.31	0.3	89	8.6	26.8	0.10	46
SEPTEMBER-2002	7.29	0.3	84	7.6	26.9	0.15	44
OCTOBER -2002	7.26	0.2	95	7.9	25.9	0.15	46
NOVEMBER -2002	7.18	0.1	105	8.7	24.6	0.14	44
DECEMBER -2002	7.08	0.2	94	9.5	22.5	0.10	43
Average	7.26	0.2	94	9.4	24.1	0.08	45

ND=not detected; NS=not sampled; NA=not analyzed.

POINT LOMA WASTEWATER TREATMENT PLANT
ANNUAL SEWAGE
Trace Metals
(Limits shown are the 6-Month Median Maximum)

From: 01-JAN-2002 to: 31-DEC-2002

Sampled by: NDL,A4A
Analyzed by: BOA,G8C,JRF,IEN,LXP,JRV, GS

Analyte:	Antimony	Antimony	Arsenic	Arsenic*	Beryllium	Beryllium	Cadmium	Cadmium
MDL Units:	23	23	.4	.4	.39	.39	1	1
Source:	PLR	PLE	PLR	PLE	PLR	PLE	PLR	PLE
JANUARY -2002	31	<23	1.14	0.86	ND	ND	1.3	ND
FEBRUARY -2002	<23	<23	1.39	0.90	ND	ND	<1.0	<1.0
MARCH -2002	<23	<23	0.90	0.76	ND	ND	<1.0	ND
APRIL -2002	<23	<23	1.33	1.09	ND	ND	1.9	<1.0
MAY -2002	<23	42	1.79	1.35	ND	ND	ND	ND
JUNE -2002	45	50	1.89	1.42	ND	ND	<1.0	<1.0
JULY -2002	ND	<23	2.44	1.86	ND	ND	1.8	1.0
AUGUST -2002	<23	<23	2.23	1.61	ND	ND	<1.0	2.7
SEPTEMBER-2002	61	76	1.75	1.51	ND	ND	ND	ND
OCTOBER -2002	<23	32	1.78	1.60	ND	<0.39	<1.0	ND
NOVEMBER -2002	<23	<23	1.62	1.29	ND	ND	<1.0	1.1
DECEMBER -2002	<23	<23	1.77	1.26	ND	ND	1.2	<1.0
AVERAGE	11	17	1.67	1.29	ND	0.00	0.5	0.4

Analyte:	Chromium	Chromium	Copper	Copper	Iron	Iron	Lead	Lead
MDL Units:	5	5	4	4	30	30	18	18
Source:	PLR	PLE	PLR	PLE	PLR	PLE	PLR	PLE
JANUARY -2002	6.6	<5.0	193	61	6040	3690	ND	ND
FEBRUARY -2002	<5.0	ND	157	92	5470	4760	ND	ND
MARCH -2002	<5.0	ND	195	103	5800	4350	<18.0	ND
APRIL -2002	6.2	ND	148	60	5970	4350	ND	<18.0
MAY -2002	<5.0	ND	141	78	7670	4440	ND	ND
JUNE -2002	9.3	ND	142	86	7460	4320	ND	<18.0
JULY -2002	<5.0	<5.0	192	73	7030	5050	<18.0	<18.0
AUGUST -2002	5.5	ND	165	68	7540	4360	<18.0	ND
SEPTEMBER-2002	ND	ND	121	103	7830	5300	<18.0	ND
OCTOBER -2002	ND	ND	164	67	7480	5390	ND	<18.0
NOVEMBER -2002	5.2	ND	185	83	7910	5570	ND	ND
DECEMBER -2002	6.3	ND	141	53	8130	5540	ND	ND
AVERAGE	3.3	0.0	162	77	7028	4760	0.0	0.0

ND= not detected
NA= not analyzed
NS= not sampled

* Arsenic and selenium data reported in the Monthly Monitoring reports for June, July, and August included values as determined by a contract laboratory. Later research and analyses determined that the values were inaccurate. This report includes data from validated followup analyses by our in-house laboratory and excludes the previously reported data. See detailed discussion in the Section I. B. Notes on Specific Analyses.

POINT LOMA WASTEWATER TREATMENT PLANT

ANNUAL SEWAGE
Trace Metals
(Limits shown are the 6-Month Median Maximum)

From: 01-JAN-2002 to: 31-DEC-2002

Sampled by: NDL,A4A
Analyzed by: BOA,G8C,JRF,IEN,LXP,JRV, GS

Analyte:	Mercury	Mercury	Nickel	Nickel	Selenium	Selenium*	Silver	Silver
MDL Units:	.5	.5	14	14	.4	.4	6.6	6.6
Source:	PLR	PLE	PLR	PLE	PLR	PLE	PLR	PLE
JANUARY -2002	<0.27	ND	<14	ND	1.65	1.25	ND	ND
FEBRUARY -2002	ND	ND	ND	ND	1.69	1.31	<6.6	ND
MARCH -2002	ND	ND	<14	ND	1.63	1.22	ND	ND
APRIL -2002	<0.27	ND	ND	<14	1.69	1.30	<6.6	ND
MAY -2002	<0.27	ND	ND	<14	1.47	1.22	ND	ND
JUNE -2002	<0.27	<0.27	ND	ND	1.43	1.00	<6.6	9.5
JULY -2002	ND	ND	<14	<14	1.92	1.26	<6.6	ND
AUGUST -2002	ND	ND	<14	ND	1.58	1.13	<6.6	ND
SEPTEMBER-2002	ND	ND	ND	ND	1.54	1.02	ND	ND
OCTOBER -2002	ND	ND	ND	ND	1.63	1.02	7.7	<6.6
NOVEMBER -2002	0.28	<0.09	ND	<14	1.60	0.98	<6.6	ND
DECEMBER -2002	0.13	ND	<14	ND	1.57	1.23	ND	ND
AVERAGE	0.03	0.00	0	0	1.62	1.16	0.6	0.8

Analyte:	Thallium	Thallium	Zinc	Zinc
MDL Units:	40	40	4	4
Source:	PLR	PLE	PLR	PLE
JANUARY -2002	<40.0	<40.0	147	30
FEBRUARY -2002	ND	ND	135	35
MARCH -2002	ND	ND	138	27
APRIL -2002	ND	ND	142	28
MAY -2002	<40.0	ND	138	25
JUNE -2002	ND	ND	135	25
JULY -2002	ND	<40.0	163	25
AUGUST -2002	ND	ND	134	23
SEPTEMBER-2002	ND	ND	133	38
OCTOBER -2002	ND	<40.0	135	34
NOVEMBER -2002	ND	ND	143	24
DECEMBER -2002	ND	ND	118	21
AVERAGE	0.0	0.0	138	28

ND= not detected
NA= not analyzed
NS= not sampled

* Arsenic and selenium data reported in the Monthly Monitoring reports for June, July, and August included values as determined by a contract laboratory. Later research and analyses determined that the values were inaccurate. This report includes data from validated followup analyses by our in-house laboratory and excludes the previously reported data. See detailed discussion in the Section I. B. Notes on Specific Analyses.

POINT LOMA WASTEWATER TREATMENT PLANT
ANNUAL SEWAGE
Ammonia-Nitrogen and Total Cyanides
(Limits shown are the 6-Month Median Maximum)

From: 01-JAN-2002 to: 31-DEC-2002

Sampled by: NDL,A4A
Analyzed by: JJI,HHD,JRV

	Ammonia-N .2 MG/L PLR	Ammonia-N .2 MG/L PLE	Cyanides,Tot .002 MG/L PLR	Cyanides,Total .002 MG/L PLE
Limit:		492		0.82
JANUARY -2002	30.2	29.4	0.0043	0.0050
FEBRUARY -2002	28.3	27.1	0.0063	0.0068
MARCH -2002	29.4	29.0	0.0035	0.0043
APRIL -2002	29.6	29.1	0.0028	0.0032
MAY -2002	29.8	30.0	0.0053	0.0054
JUNE -2002	27.5	26.4	0.0030	0.0023
JULY -2002	27.9	26.8	0.0033	0.0033
AUGUST -2002	28.8	28.4	0.0021	0.0027
SEPTEMBER-2002	26.7	26.9	0.0040	0.0035
OCTOBER -2002	28.2	27.3	0.0027	0.0026
NOVEMBER -2002	27.7	27.8	0.0028	0.0026
DECEMBER -2002	26.8	26.3	0.0027	<0.0020
Average:	28.4	27.9	0.0036	0.0035

ND= not detected
NA= not analyzed
NS= not sampled

POINT LOMA WASTEWATER TREATMENT PLANT
ANNUAL SEWAGE
Radioactivity

From: 01-JAN-2002 to: 31-DEC-2002

Sampled by: NDL,A4A
Analyzed by: Truesdail Labs Inc.

Source	Month	Gross Alpha Radiation	Gross Beta Radiation
PLE	JANUARY -2002	1.6±1.5	35.3±4.4
PLE	FEBRUARY -2002	1.5±1.3	37.1±4.7
PLE	MARCH -2002	1.6±1.1	33.4±4.5
PLE	APRIL -2002	1.9±1.1	32.5±4.6
PLE	MAY -2002	1.9±1.2	13.3±5.1
PLE	JUNE -2002	1.2±1.1	35.7±5.2
PLE	JULY -2002	0.7±1.1	21.5±3.8
PLE	AUGUST -2002	1.8±1.0	12.2±4.5
PLE	SEPTEMBER-2002	0.1±0.8	27.9±4.7
PLE	OCTOBER -2002	1.5±1.2	14.9±4.8
PLE	NOVEMBER -2002	1.3±1.1	25.5±5.1
PLE	DECEMBER -2002	0.8±1.0	14.9±4.2
AVERAGE		1.3±1.1	25.4±4.6

Source	Month	Gross Alpha Radiation	Gross Beta Radiation
PLR	JANUARY -2002	-0.6±1.5	35.0±4.6
PLR	FEBRUARY -2002	2.0±1.3	37.9±4.7
PLR	MARCH -2002	2.0±1.0	37.6±4.7
PLR	APRIL -2002	1.8±1.2	35.7±4.6
PLR	MAY -2002	2.8±1.3	17.2±3.8
PLR	JUNE -2002	2.9±1.2	36.3±5.9
PLR	JULY -2002	1.5±1.6	24.9±4.0
PLR	AUGUST -2002	3.8±1.6	15.2±4.8
PLR	SEPTEMBER-2002	1.7±1.4	28.9±4.8
PLR	OCTOBER -2002	2.2±1.5	18.6±4.7
PLR	NOVEMBER -2002	1.3±1.6	22.7±4.9
PLR	DECEMBER -2002	3.4±2.2	20.8±4.6
AVERAGE		2.1±1.4	27.6±4.7

ND= not detected
NA= not analyzed
NS= not sampled

Units in picocuries/liter (pCi/L)

POINT LOMA WASTEWATER TREATMENT PLANT
SEWAGE ANNUAL - Chlorinated Pesticide Analysis

From 01-JAN-2002 To 31-DEC-2002

Analyte	MDL	Units	PLE JAN Avg	PLE FEB Avg	PLE MAR Avg	PLE APR Avg	PLE MAY Avg	PLE JUN Avg	PLE JUL Avg	PLE AUG Avg	PLE SEP Avg	PLE OCT Avg	PLE NOV Avg	PLE DEC Avg	PLE Average
Aldrin	60	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	50	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Alpha isomer	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Beta isomer	30	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Gamma isomer	10	NG/L	16	13	14	13	<10	<10	ND	11	10	11	<10	ND	7
BHC, Delta isomer	30	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p,p-DDD	30	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	<20	ND	ND	0
p,p-DDE	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p,p-DDT	50	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDD	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDE	100	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDT	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	30	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha (cis) Chlordane	30	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma (trans) Chlordane	80	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha Chlordene		NG/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gamma Chlordene		NG/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxychlordane	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans Nonachlor	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cis Nonachlor	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha Endosulfan	30	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta Endosulfan	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	50	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	23	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mirex	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	60	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	4000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1016	4000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1221	4000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1232	4000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1242	4000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1248	2000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1254	2000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1260	2000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1262	2000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aldrin + Dieldrin	60	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Hexachlorocyclohexanes	30	NG/L	16	13	14	13	0	0	0	11	10	11	0	0	7
DDT and derivatives	100	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Chlordane + related cmpds.	80	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Polychlorinated biphenyls	4000	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Endosulfans	30	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Heptachlors	30	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Chlorinated Hydrocarbons	4000	NG/L	16	13	14	13	0	0	0	11	10	11	0	0	7

nd=not detected; NS=not sampled; NA=not analyzed

"Standards for alpha and gamma chlordene are no longer available in the U.S. for the analysis of these compounds."

POINT LOMA WASTEWATER TREATMENT PLANT
SEWAGE ANNUAL - Chlorinated Pesticide Analysis

From 01-JAN-2002 To 31-DEC-2002

Analyte	MDL	Units	PLR JAN Avg	PLR FEB Avg	PLR MAR Avg	PLR APR Avg	PLR MAY Avg	PLR JUN Avg	PLR JUL Avg	PLR AUG Avg	PLR SEP Avg	PLR OCT Avg	PLR NOV Avg	PLR DEC Avg	PLR Average
Aldrin	60	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	50	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Alpha isomer	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Beta isomer	30	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	<20	ND	ND	0
BHC, Gamma isomer	10	NG/L	44	37	33	29	<10	35	29	28	23	28	12	23	27
BHC, Delta isomer	30	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p,p-DDD	30	NG/L	<30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
p,p-DDE	20	NG/L	ND	ND	<20	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
p,p-DDT	50	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDD	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDE	100	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDT	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	30	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha (cis) Chlordane	30	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	<30	ND	ND	0
Gamma (trans) Chlordane	80	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha Chlordene		NG/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gamma Chlordene		NG/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxychlordane	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans Nonachlor	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	20	ND	ND	2
Cis Nonachlor	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	<20	ND	ND	0
Alpha Endosulfan	30	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta Endosulfan	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	50	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	23	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mirex	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	60	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	4000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1016	4000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1221	4000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1232	4000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1242	4000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1248	2000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1254	2000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1260	2000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1262	2000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aldrin + Dieldrin	60	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Hexachlorocyclohexanes	30	NG/L	44	37	33	29	0	35	29	28	23	28	12	23	27
DDT and derivatives	100	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Chlordane + related cmpds.	80	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Polychlorinated biphenyls	4000	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Endosulfans	30	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Heptachlors	30	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Chlorinated Hydrocarbons	4000	NG/L	44	37	33	29	0	35	29	28	23	48	12	23	28

nd=not detected; NS=not sampled; NA=not analyzed

"Standards for alpha and gamma chlordene are no longer available in the U.S. for the analysis of these compounds."

POINT LOMA WASTEWATER TREATMENT PLANT
SEMI-ANNUAL SLUDGE PROJECT- Organophosphorus PesticidesEPA Method 614/622 (with additions)

From 01-JAN-2002 To 31-DEC-2002

Sampling: LC,MC,BGB,RJ,SKB,HHD,NC
Analysis: CW,TB,KD

Analyte	MDL	Units	PLE 25-JUN-2002 P175051	PLE 15-OCT-2002 P188969	PLR 15-OCT-2002 P188974
Demeton O	.09	UG/L	ND	ND	ND
Demeton S	.05	UG/L	ND	ND	ND
Diazinon	.07	UG/L	0.1	0.1	0.2
Guthion	.21	UG/L	ND	ND	ND
Malathion	.04	UG/L	0.1	0.2	ND
Parathion	.03	UG/L	ND	ND	ND
Thiophosphorus Pesticides	.21	UG/L	0.1	0.2	0.0
Demeton -O, -S	.09	UG/L	0.0	0.0	0.0
Total Organophosphorus Pesticides	.21	UG/L	0.3	0.6	0.3
Additional compounds determined……					
Tetraethylpyrophosphate		UG/L	ND	NA	NA
Dichlorvos		UG/L	ND	ND	ND
Dibrom		UG/L	ND	ND	ND
Ethoprop		UG/L	ND	ND	ND
Phorate		UG/L	ND	ND	ND
Sulfotepp		UG/L	ND	ND	ND
Disulfoton		UG/L	0.1	0.1	0.1
Monocrotophos		UG/L	ND	0.2	ND
Dimethoate		UG/L	ND	ND	ND
Ronnel		UG/L	ND	ND	ND
Trichloronate		UG/L	ND	ND	ND
Merphos		UG/L	ND	ND	ND
Dichlofenthion		UG/L	ND	ND	ND
Tokuthion		UG/L	ND	ND	ND
Stirophos		UG/L	ND	ND	ND
Bolstar		UG/L	ND	ND	ND
Fensulfothion		UG/L	ND	ND	ND
EPN		UG/L	ND	ND	ND
Coumaphos		UG/L	ND	ND	ND
Mevinphos, e isomer		UG/L	ND	ND	ND
Mevinphos, z isomer		UG/L	ND	ND	ND
Chlorpyrifos	.05	UG/L	ND	ND	ND

nd=not detected; NS=not sampled; NA=not analyzed

POINT LOMA WASTEWATER TREATMENT PLANT
ANNUAL SEWAGE MONTHLY - Tributyl Tin analysis

From 01-JAN-2002 To 31-DEC-2002
Sampling: AM Analysis:CW

Analyte	MDL	Units	PLE JAN	PLE FEB	PLE MAR	PLE APR	PLE MAY	PLE JUN	PLE JUL	PLE AUG	PLE SEP	PLE OCT	PLE NOV	PLE DEC	Average
Dibutyl tin	.75	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monobutyl Tin	4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tributyl tin	.75	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Analyte	MDL	Units	PLR JAN	PLR FEB	PLR MAR	PLR APR	PLR MAY	PLR JUN	PLR JUL	PLR AUG	PLR SEP	PLR OCT	PLR NOV	PLR DEC	Average
Dibutyl tin	.75	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monobutyl Tin	4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tributyl tin	.75	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND=not detected
NS=not sampled
NA=not analyzed

POINT LOMA WASTEWATER TREATMENT PLANT
SEWAGE ANNUAL - Acid Extractables

From 01-JAN-2002 to 31-DEC-2002

Analyte	MDL	Units	PLE JAN Avg	PLE FEB Avg	PLE MAR Avg	PLE APR Avg	PLE MAY Avg	PLE JUN Avg	PLE JUL Avg	PLE AUG Avg	PLE SEP Avg	PLE OCT Avg	PLE NOV Avg	PLE DEC Avg	Average
2-chlorophenol	1.76	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dichlorophenol	1.95	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-chloro-3-methylphenol	1.34	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-trichlorophenol	1.75	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	5.87	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	2.53	UG/L	14.8	16.4	16.6	14.7	12.5	11.0	8.6	8.4	7.9	8.6	7.5	10.3	11.4
2-nitrophenol	1.88	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dimethylphenol	1.32	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dinitrophenol	6.07	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-nitrophenol	3.17	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-methyl-4,6-dinitrophenol	4.29	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Chlorinated Phenols	5.87	UG/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Non-Chlorinated Phenols	6.07	UG/L	14.8	16.4	16.6	14.7	12.5	11.0	8.6	8.4	7.9	8.6	7.5	10.3	11.4
Phenols	6.07	UG/L	14.8	16.4	16.6	14.7	12.5	11.0	8.6	8.4	7.9	8.6	7.5	10.3	11.4
Additional analytes determined;															
2-methylphenol	1.51	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-methylphenol(4-MP is unresolved)	4.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
4-methylphenol(3-MP is unresolved)	4.22	UG/L	47.3	55.8	45.1	48.8	38.6	31.4	23.5	22.8	21.7	26.9	25.9	35.5	35.3
2,4,5-trichlorophenol	1.66	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Analyte	MDL	Units	PLR JAN Avg	PLR FEB Avg	PLR MAR Avg	PLR APR Avg	PLR MAY Avg	PLR JUN Avg	PLR JUL Avg	PLR AUG Avg	PLR SEP Avg	PLR OCT Avg	PLR NOV Avg	PLR DEC Avg	Average
2-chlorophenol	1.76	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dichlorophenol	1.95	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-chloro-3-methylphenol	1.34	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-trichlorophenol	1.75	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	5.87	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	2.53	UG/L	19.1	17.0	16.6	16.7	14.4	15.5	12.7	12.1	13.1	13.5	12.4	13.6	14.7
2-nitrophenol	1.88	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dimethylphenol	1.32	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dinitrophenol	6.07	UG/L	ND	ND	<6.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0
4-nitrophenol	3.17	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-methyl-4,6-dinitrophenol	4.29	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Chlorinated Phenols	5.87	UG/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Non-Chlorinated Phenols	6.07	UG/L	19.1	17.0	16.6	16.7	14.4	15.5	12.7	12.1	13.1	13.5	12.4	13.6	14.7
Phenols	6.07	UG/L	19.1	17.0	16.6	16.7	14.4	15.5	12.7	12.1	13.1	13.5	12.4	13.6	14.7
Additional analytes determined;															
2-methylphenol	1.51	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-methylphenol(4-MP is unresolved)	4.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
4-methylphenol(3-MP is unresolved)	4.22	UG/L	62.8	64.7	59.1	52.8	45.6	46.5	32.5	31.3	37.1	41.0	41.9	49.2	47.0
2,4,5-trichlorophenol	1.66	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

nd=not detected; NS=not sampled; NA=not analyzed

POINT LOMA WASTEWATER TREATMENT PLANT
SEWAGE ANNUAL Priority Pollutants Base/Neutrals
From 01-JAN-2002 to 31-DEC-2002

Analyte	MDL	Units	PLE JAN Avg	PLE FEB Avg	PLE MAR Avg	PLE APR Avg	PLE MAY Avg	PLE JUN Avg	PLE JUL Avg	PLE AUG Avg	PLE SEP Avg	PLE OCT Avg	PLE NOV Avg	PLE DEC Avg	PLE Average
bis(2-chloroethyl) ether	2.62	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-dichlorobenzene	1.65	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-dichlorobenzene	1.63	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-dichlorobenzene	2.3	UG/L	<2.3	<2.3	<2.3	<2.3	2.9	ND	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	0.2
Bis-(2-chloroisopropyl) ether	8.95	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-nitrosodi-n-propylamine	1.63	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	1.52	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	3.55	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	1.93	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-chloroethoxy)methane	1.57	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-trichlorobenzene	1.44	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	1.52	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	2.87	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene		UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	2.02	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	3.26	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-dinitrotoluene	1.93	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	2.2	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dinitrotoluene	1.49	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	2.43	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-chlorophenyl phenyl ether	3.62	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	6.97	UG/L	ND	ND	8.7	ND	11.1	<7.0	ND	ND	ND	7.3	ND	ND	2.3
N-nitrosodiphenylamine	2.96	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-bromophenyl phenyl ether	4.04	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	4.8	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	4.15	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	4.04	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	6.49	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-nitrosodimethylamine	2.01	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	6.9	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	5.19	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzidine	1.02	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	4.77	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	7.49	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[A]anthracene	7.68	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis-(2-ethylhexyl) phthalate	10.43	UG/L	ND	<10.4	ND	ND	ND	ND	ND	ND	ND	49.8	ND	ND	4.2
Di-n-octyl phthalate	8.59	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	26.3	ND	ND	2.2
3,3-dichlorobenzidine	2.43	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[K]fluoranthene	7.36	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,4-benzo(B)fluoranthene	6.63	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[A]pyrene	6.53	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-CD)pyrene	6.27	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(A,H)anthracene	6.19	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[G,H,I]perylene	6.5	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-diphenylhydrazine	2.49	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Dichlorobenzenes	1.65	UG/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Polynuc. Aromatic Hydrocarbons	7.68	UG/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Base/Neutral Compounds	10.43	UG/L	0.0	0.0	8.7	0.0	14.0	0.0	0.0	0.0	0.0	83.4	0.0	0.0	8.8
Additional analytes determined;															
1-methylnaphthalene	2.18	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-methylnaphthalene	2.25	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-dimethylnaphthalene	3.31	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,5-trimethylnaphthalene	4.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-methylphenanthrene	6.29	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[e]pyrene	7.67	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perylene	6.61	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Biphenyl	2.43	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

nd=not detected; NS=not sampled; NA=not analyzed

POINT LOMA WASTEWATER TREATMENT PLANT
SEWAGE ANNUAL Priority Pollutants Base/Neutrals
From 01-JAN-2002 To 31-DEC-2002

Analyte	MDL	Units	PLR JAN Avg	PLR FEB Avg	PLR MAR Avg	PLR APR Avg	PLR MAY Avg	PLR JUN Avg	PLR JUL Avg	PLR AUG Avg	PLR SEP Avg	PLR OCT Avg	PLR NOV Avg	PLR DEC Avg	PLR Average
bis(2-chloroethyl) ether	2.62	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
1,3-dichlorobenzene	1.65	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
1,2-dichlorobenzene	1.63	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
1,4-dichlorobenzene	2.3	UG/L	<2.3	<2.3	<2.3	2.6	3.1	*	3.0	<2.3	2.3	<2.3	3.0	2.5	1.5
Bis-(2-chloroisopropyl) ether	8.95	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
N-nitrosodi-n-propylamine	1.63	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	1.52	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	3.55	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Isophorone	1.93	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
bis(2-chloroethoxy)methane	1.57	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
1,2,4-trichlorobenzene	1.44	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Naphthalene	1.52	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	2.87	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene		UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	2.02	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	3.26	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
2,6-dinitrotoluene	1.93	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	2.2	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
2,4-dinitrotoluene	1.49	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Fluorene	2.43	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
4-chlorophenyl phenyl ether	3.62	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	6.97	UG/L	ND	ND	8.2	ND	9.6	*	ND	ND	ND	7.5	ND	ND	2.3
N-nitrosodiphenylamine	2.96	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
4-bromophenyl phenyl ether	4.04	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	4.8	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	4.15	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Anthracene	4.04	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	6.49	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
N-nitrosodimethylamine	2.01	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	6.9	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Pyrene	5.19	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Benzidine	1.02	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	4.77	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Chrysene	7.49	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Benzo[A]anthracene	7.68	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Bis-(2-ethylhexyl) phthalate	10.43	UG/L	ND	16.7	10.6	14.2	18.7	*	13.6	14.8	11.4	55.0	17.9	14.0	17.0
Di-n-octyl phthalate	8.59	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	23.9	ND	ND	2.2
3,3-dichlorobenzidine	2.43	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[K]fluoranthene	7.36	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
3,4-benzo(B)fluoranthene	6.63	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Benzo[A]pyrene	6.53	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-CD)pyrene	6.27	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Dibenzo(A,H)anthracene	6.19	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Benzo[G,H,I]perylene	6.5	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
1,2-diphenylhydrazine	2.49	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Total Dichlorobenzenes	1.65	UG/L	0.0	0.0	0.0	0.0	0.0	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Polynuc. Aromatic Hydrocarbons	7.68	UG/L	0.0	0.0	0.0	0.0	0.0	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Base/Neutral Compounds	10.43	UG/L	0.0	16.7	18.8	16.8	31.4	0.0	16.6	14.8	13.7	86.4	20.9	16.5	21.1
Additional analytes determined;															
1-methylnaphthalene	2.18	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
2-methylnaphthalene	2.25	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
2,6-dimethylnaphthalene	3.31	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
2,3,5-trimethylnaphthalene	4.4	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
1-methylphenanthrene	6.29	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Benzo[e]pyrene	7.67	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Perylene	6.61	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Biphenyl	2.43	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND

nd=not detected; NS=not sampled; NA=not analyzed * Data quality objectives were insufficient for compliance monitoring.

POINT LOMA WASTEWATER TREATMENT PLANT
SEWAGE ANNUAL Priority Pollutants Purgeables

From 01-JAN-2002 to 31-DEC-2002

Analyte	MDL	Units	PLE JAN Avg	PLE FEB Avg	PLE MAR Avg	PLE APR Avg	PLE MAY Avg	PLE JUN Avg	PLE JUL Avg	PLE AUG Avg	PLE SEP Avg	PLE OCT Avg	PLE NOV Avg	PLE DEC Avg	PLE Average
Chloromethane	1	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Bromomethane	1	UG/L	ND	<1.0	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	0.0
Vinyl chloride	1	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Chloroethane	3	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
1,1-dichloroethene	1	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	2	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	1	UG/L	2.6	1.5	1.9	2.5	2.8	*	3.2	3.7	3.2	4.9	3.6	2.4	2.9
1,1-dichloroethane	1	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
trans-1,2-dichloroethene	1	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Chloroform	1	UG/L	5.9	4.3	5.7	6.7	5.6	*	6.1	4.1	5.4	ND	9.8	6.1	5.4
1,2-dichloroethane	1	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
1,1,1-trichloroethane	1	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	1	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	1	UG/L	1.8	<1.0	1.2	1.4	ND	*	1.1	ND	ND	ND	2.1	1.3	0.8
1,2-dichloropropane	1	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
trans-1,3-dichloropropene	1	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	1	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Benzene	1	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	1	UG/L	1.6	1.0	1.0	1.1	ND	*	ND	ND	ND	ND	1.8	<1.0	0.6
1,1,2-trichloroethane	1	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	<1.0	0.0
cis-1,3-dichloropropene	1	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
2-chloroethylvinyl ether	5	UG/L	ND	*	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Bromoform	6.1	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-tetrachloroethane	1	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	1.6	1.3	0.3
Toluene	1	UG/L	2.0	1.9	4.2	3.1	1.9	*	1.4	1.8	8.1	2.2	4.6	2.0	3.0
Chlorobenzene	1	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	1	UG/L	ND	ND	ND	ND	ND	*	ND	ND	<1.0	ND	ND	ND	0.0
Acrylonitrile	13.8	UG/L	ND	ND	ND	ND	*	*	ND	ND	ND	ND	ND	ND	ND
Acrolein	11.4	UG/L	ND	ND	ND	ND	*	*	ND	ND	ND	ND	ND	ND	ND
Halomethane Purgeable Cmpnds	6.1	UG/L	3.4	1.0	2.2	2.5	0.0	*	1.1	0.0	0.0	0.0	3.9	1.3	1.4
Purgeable Compounds	13.8	UG/L	13.9	8.7	14.0	14.8	10.3	*	11.8	22.3	37.5	7.1	23.5	20.5	16.8

Additional analytes determined;

Allyl chloride	1.4	UG/L	ND	ND	ND	ND	*	*	ND	ND	ND	ND	ND	ND	ND
4-methyl-2-pentanone	6.1	UG/L	ND	ND	ND	ND	*	*	ND	ND	ND	ND	ND	ND	ND
meta,para xylenes	3.1	UG/L	ND	ND	ND	ND	*	*	ND	ND	3.5	ND	ND	ND	0.4
Styrene	4.7	UG/L	ND	ND	ND	ND	*	*	ND	ND	ND	ND	ND	ND	ND
1,2,4-trichlorobenzene	1.44	UG/L	ND	ND	ND	ND	*	*	ND	ND	ND	ND	ND	ND	ND
Methyl Iodide	1.3	UG/L	ND	ND	ND	ND	*	*	ND	ND	ND	ND	ND	ND	ND
Chloroprene	1.4	UG/L	ND	ND	ND	ND	*	*	ND	ND	ND	ND	ND	ND	ND
Methyl methacrylate	4.6	UG/L	ND	ND	ND	ND	*	*	ND	ND	ND	ND	ND	ND	ND
2-nitropropane	10	UG/L	ND	ND	ND	ND	*	*	ND	ND	ND	ND	ND	ND	ND
1,2-dibromoethane	3.3	UG/L	ND	ND	ND	ND	*	*	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	4.4	UG/L	ND	ND	ND	ND	*	*	ND	ND	ND	ND	ND	ND	ND
Benzyl chloride	7.2	UG/L	ND	ND	ND	ND	*	*	ND	ND	ND	ND	ND	ND	ND
ortho-xylene	3.4	UG/L	ND	ND	ND	ND	*	*	ND	ND	ND	ND	ND	ND	ND
Acetone	20	UG/L	903	403	807	746	*	*	905	1010	788	859	1970	1570	996
Carbon disulfide	1	UG/L	1.5	1.1	ND	1.4	*	*	1.5	1.9	2.1	1.4	8.2	<1.0	1.9
2-butanone	4	UG/L	ND	ND	ND	ND	*	*	ND	12.7	20.8	ND	ND	7.4	4.1
Methyl tert-butyl ether	1	UG/L	2.1	2.0	1.8	2.4	*	*	ND	1.2	1.4	3.4	5.1	1.8	2.1

nd=not detected; NS=not sampled; NA=not analyzed
* Data quality objectives were insufficient for compliance monitoring.

POINT LOMA WASTEWATER TREATMENT PLANT
SEWAGE ANNUAL Priority Pollutants Purgeables

From 01-JAN-2002 to 31-DEC-2002

Analyte	MDL	Units	PLR JAN Avg	PLR FEB Avg	PLR MAR Avg	PLR APR Avg	PLR MAY Avg	PLR JUN Avg	PLR JUL Avg	PLR AUG Avg	PLR SEP Avg	PLR OCT Avg	PLR NOV Avg	PLR DEC Avg	PLR Average
Chloromethane	1	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Bromomethane	1	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	1	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Chloroethane	3	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
1,1-dichloroethene	1	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	2	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	1	UG/L	1.7	1.9	2.0	6.1	2.0	*	2.3	2.0	2.1	3.6	2.7	1.6	2.5
1,1-dichloroethane	1	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
trans-1,2-dichloroethene	1	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Chloroform	1	UG/L	5.8	4.9	5.6	8.4	4.6	*	7.7	3.7	5.8	ND	6.9	8.8	5.7
1,2-dichloroethane	1	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
1,1,1-trichloroethane	1	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	1	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	1	UG/L	ND	1.3	<1.0	ND	ND	*	1.4	ND	2.2	ND	2.6	1.5	0.8
1,2-dichloropropane	1	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
trans-1,3-dichloropropene	1	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	1	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Benzene	1	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	1	UG/L	ND	1.0	ND	ND	ND	*	ND	ND	1.8	ND	1.9	1.5	0.6
1,1,2-trichloroethane	1	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	1	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
2-chloroethylvinyl ether	5	UG/L	ND	*	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Bromoform	6.1	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-tetrachloroethane	1	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1	UG/L	2.4	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	1.2	0.3
Toluene	1	UG/L	3.4	ND	5.5	5.1	ND	*	1.4	1.1	1.1	2.5	1.5	1.4	2.1
Chlorobenzene	1	UG/L	1.3	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	0.1
Ethylbenzene	1	UG/L	ND	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	13.8	UG/L	ND	ND	ND	ND	*	*	ND	ND	ND	ND	ND	ND	ND
Acrolein	11.4	UG/L	ND	ND	ND	ND	*	*	ND	ND	ND	ND	ND	ND	ND
Halomethane Purgeable Cmpnds	6.1	UG/L	0.0	2.3	0.0	0.0	0.0	*	1.4	0.0	4.0	0.0	4.5	3.0	1.4
Purgeable Compounds	13.8	UG/L	14.6	9.1	13.1	19.6	6.6	*	12.8	14.9	13.0	6.1	15.6	24.3	13.6

Additional analytes determined;

Allyl chloride	1.4	UG/L	ND	ND	ND	ND	*	*	ND	ND	ND	ND	ND	ND	ND
4-methyl-2-pentanone	6.1	UG/L	ND	ND	ND	ND	*	*	ND	ND	ND	ND	ND	ND	ND
meta,para xylenes	3.1	UG/L	<3.1	ND	ND	3.3	*	*	ND	ND	ND	ND	ND	ND	0.3
Styrene	4.7	UG/L	ND	ND	ND	ND	*	*	ND	ND	ND	ND	ND	ND	ND
1,2,4-trichlorobenzene	1.44	UG/L	ND	ND	ND	ND	*	*	ND	ND	ND	ND	ND	ND	ND
Methyl Iodide	1.3	UG/L	ND	ND	ND	ND	*	*	ND	ND	ND	ND	ND	ND	ND
Chloroprene	1.4	UG/L	ND	ND	ND	ND	*	*	ND	ND	ND	ND	ND	ND	ND
Methyl methacrylate	4.6	UG/L	ND	ND	ND	ND	*	*	ND	ND	ND	ND	ND	ND	ND
2-nitropropane	10	UG/L	ND	ND	ND	ND	*	*	ND	ND	ND	ND	ND	ND	ND
1,2-dibromoethane	3.3	UG/L	ND	ND	ND	ND	*	*	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	4.4	UG/L	ND	ND	ND	ND	*	*	ND	ND	ND	ND	ND	ND	ND
Benzyl chloride	7.2	UG/L	ND	ND	ND	ND	*	*	ND	ND	ND	ND	ND	ND	ND
ortho-xylene	3.4	UG/L	ND	ND	ND	ND	*	*	ND	ND	ND	ND	ND	ND	ND
Acetone	20	UG/L	4630	285	**229**	**471**	*	*	866	388	305	1480	1650	2150	1245
Carbon disulfide	1	UG/L	1.2	1.1	ND	1.4	*	*	1.5	ND	1.6	1.8	5.0	ND	1.4
2-butanone	4	UG/L	ND	ND	ND	ND	*	*	ND	8.1	ND	ND	ND	8.3	1.6
Methyl tert-butyl ether	1	UG/L	2.7	1.5	5.3	13.8	*	*	8.0	ND	1.3	4.6	5.4	3.0	4.6

nd=not detected; NS=not sampled; NA=not analyzed * Data quality objectives were insufficient for compliance monitoring.

POINT LOMA WASTEWATER TREATMENT PLANT
Annual Sewage Dioxin and Furan Analysis

From 01-JAN-2002 to 31-DEC-2002

Sampled by: A. Martinez
Analyzed by: Pacific Analytical Inc.

Analyte	MDL	Units	Equiv	PLE JAN P128540	PLE FEB P130094	PLE MAR P132995	PLE APR P135388	PLE MAY P138139	PLE JUN P172172
2,3,7,8-tetra CDD	10	PG/L	1.000	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDD	50	PG/L	0.500	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	50	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	50	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	50	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	50	PG/L	0.010	ND	<50.000	ND	ND	ND	ND
octa CDD	100	PG/L	0.001	ND	ND	<100.000	ND	ND	ND
2,3,7,8-tetra CDF	10	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDF	50	PG/L	0.050	ND	ND	ND	ND	ND	ND
2,3,4,7,8-penta CDF	50	PG/L	0.500	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	50	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	50	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	50	PG/L	0.100	ND	ND	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	50	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	50	PG/L	0.010	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	50	PG/L	0.010	ND	ND	ND	ND	ND	ND
octa CDF	100	PG/L	0.001	ND	ND	ND	ND	ND	ND

Analyte	MDL	Units	Equiv	PLE JUL P175848	PLE AUG P180328	PLE SEP P186420	PLE OCT P188969	PLE NOV P194180	PLE DEC P197141
2,3,7,8-tetra CDD	10	PG/L	1.000	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDD	50	PG/L	0.500	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	50	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	50	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	50	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	50	PG/L	0.010	ND	ND	ND	ND	ND	ND
octa CDD	100	PG/L	0.001	ND	ND	ND	ND	ND	ND
2,3,7,8-tetra CDF	10	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDF	50	PG/L	0.050	ND	ND	ND	ND	ND	ND
2,3,4,7,8-penta CDF	50	PG/L	0.500	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	50	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	50	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	50	PG/L	0.100	ND	ND	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	50	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	50	PG/L	0.010	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	50	PG/L	0.010	ND	ND	ND	ND	ND	ND
octa CDF	100	PG/L	0.001	ND	ND	ND	ND	ND	ND

Above are permit required CDD/CDF isomers.
nd= not detected
NA= not analyzed NS= not sampled

POINT LOMA WASTEWATER TREATMENT PLANT
Annual Sewage Dioxin and Furan Analysis

From 01-JAN-2002 to 31-DEC-2002

Sampled by: A. Martinez
Analyzed by: Pacific Analytical Inc.

TCDD Equivalents for:

Analyte	MDL	Units	PLE TCDD JAN P128540	PLE TCDD FEB P130094	PLE TCDD MAR P132995	PLE TCDD APR P135388	PLE TCDD MAY P138139	PLE TCDD JUN P172172	PLE TCDD JUL P175848
2,3,7,8-tetra CDD	10	PG/L	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDD	50	PG/L	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	50	PG/L	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	50	PG/L	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	50	PG/L	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	50	PG/L	ND	ND	ND	ND	ND	ND	ND
octa CDD	100	PG/L	ND	ND	ND	ND	ND	ND	ND
2,3,7,8-tetra CDF	10	PG/L	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDF	50	PG/L	ND	ND	ND	ND	ND	ND	ND
2,3,4,7,8-penta CDF	50	PG/L	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	50	PG/L	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	50	PG/L	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	50	PG/L	ND	ND	ND	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	50	PG/L	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	50	PG/L	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	50	PG/L	ND	ND	ND	ND	ND	ND	ND
octa CDF	100	PG/L	ND	ND	ND	ND	ND	ND	ND

Analyte	MDL	Units	PLE TCDD AUG P180328	PLE TCDD SEP P186420	PLE TCDD OCT P188969	PLE TCDD NOV P194180	PLE TCDD DEC P197141
2,3,7,8-tetra CDD	10	PG/L	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDD	50	PG/L	ND	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	50	PG/L	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	50	PG/L	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	50	PG/L	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	50	PG/L	ND	ND	ND	ND	ND
octa CDD	100	PG/L	ND	ND	ND	ND	ND
2,3,7,8-tetra CDF	10	PG/L	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDF	50	PG/L	ND	ND	ND	ND	ND
2,3,4,7,8-penta CDF	50	PG/L	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	50	PG/L	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	50	PG/L	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	50	PG/L	ND	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	50	PG/L	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	50	PG/L	ND	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	50	PG/L	ND	ND	ND	ND	ND
octa CDF	100	PG/L	ND	ND	ND	ND	ND

Above are permit required CDD/CDF isomers.
nd= not detected
NA= not analyzed NS= not sampled

POINT LOMA WASTEWATER TREATMENT PLANT
Annual Sewage Dioxin and Furan Analysis

From 01-JAN-2002 to 31-DEC-2002

Sampled by: A. Martinez
Analyzed by: Pacific Analytical Inc.

Analyte	MDL	Units	Equiv	PLR JAN P128543	PLR FEB P130099	PLR MAR P132998	PLR APR P135391	PLR MAY P138144	PLR JUN P172175
2,3,7,8-tetra CDD	10	PG/L	1.000	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDD	50	PG/L	0.500	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	50	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	50	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	50	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	50	PG/L	0.010	590.000	ND	ND	ND	ND	ND
octa CDD	100	PG/L	0.001	4800.000	340.000	130.000	ND	ND	100.000
2,3,7,8-tetra CDF	10	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDF	50	PG/L	0.050	ND	ND	ND	ND	ND	ND
2,3,4,7,8-penta CDF	50	PG/L	0.500	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	50	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	50	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	50	PG/L	0.100	ND	ND	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	50	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	50	PG/L	0.010	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	50	PG/L	0.010	ND	ND	ND	ND	ND	ND
octa CDF	100	PG/L	0.001	480.000	ND	ND	ND	ND	ND

Analyte	MDL	Units	Equiv	PLR JUL P175851	PLR AUG P180333	PLR SEP P186423	PLR OCT P188974	PLR NOV P194183	PLR DEC P197144
2,3,7,8-tetra CDD	10	PG/L	1.000	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDD	50	PG/L	0.500	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	50	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	50	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	50	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	50	PG/L	0.010	ND	ND	ND	ND	ND	ND
octa CDD	100	PG/L	0.001	ND	150.000	ND	ND	ND	270.000
2,3,7,8-tetra CDF	10	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDF	50	PG/L	0.050	ND	ND	ND	ND	ND	ND
2,3,4,7,8-penta CDF	50	PG/L	0.500	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	50	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	50	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	50	PG/L	0.100	ND	ND	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	50	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	50	PG/L	0.010	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	50	PG/L	0.010	ND	ND	ND	ND	ND	ND
octa CDF	100	PG/L	0.001	ND	ND	ND	ND	ND	ND

Above are permit required CDD/CDF isomers.

nd= not detected
NA= not analyzed
NS= not sampled

POINT LOMA WASTEWATER TREATMENT PLANT
Annual Sewage Dioxin and Furan Analysis

From 01-JAN-2002 to 31-DEC-2002

Sampled by: A. Martinez
Analyzed by: Pacific Analytical Inc.

TCDD Equivalents for:

Analyte	MDL	Units	PLR TCDD JAN P128543	PLR TCDD FEB P130099	PLR TCDD MAR P132998	PLR TCDD APR P135391	PLR TCDD MAY P138144	PLR TCDD JUN P172175	PLR TCDD JUL P175851
2,3,7,8-tetra CDD	10	PG/L	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDD	50	PG/L	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	50	PG/L	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	50	PG/L	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	50	PG/L	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	50	PG/L	5.900	ND	ND	ND	ND	ND	ND
octa CDD	100	PG/L	4.800	0.340	0.130	ND	ND	0.100	ND
2,3,7,8-tetra CDF	10	PG/L	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDF	50	PG/L	ND	ND	ND	ND	ND	ND	ND
2,3,4,7,8-penta CDF	50	PG/L	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	50	PG/L	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	50	PG/L	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	50	PG/L	ND	ND	ND	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	50	PG/L	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	50	PG/L	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	50	PG/L	ND	ND	ND	ND	ND	ND	ND
octa CDF	100	PG/L	0.480	ND	ND	ND	ND	ND	ND

Analyte	MDL	Units	PLR TCDD AUG P180333	PLR TCDD SEP P186423	PLR TCDD OCT P188974	PLR TCDD NOV P194183	PLR TCDD DEC P197144
2,3,7,8-tetra CDD	10	PG/L	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDD	50	PG/L	ND	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	50	PG/L	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	50	PG/L	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	50	PG/L	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	50	PG/L	ND	ND	ND	ND	ND
octa CDD	100	PG/L	0.150	ND	ND	ND	0.270
2,3,7,8-tetra CDF	10	PG/L	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDF	50	PG/L	ND	ND	ND	ND	ND
2,3,4,7,8-penta CDF	50	PG/L	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	50	PG/L	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	50	PG/L	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	50	PG/L	ND	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	50	PG/L	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	50	PG/L	ND	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	50	PG/L	ND	ND	ND	ND	ND
octa CDF	100	PG/L	ND	ND	ND	ND	ND

Above are permit required CDD/CDF isomers.

nd= not detected
NA= not analyzed
NS= not sampled

2002
Point Loma Treatment Plant
Total Coliforms

The following are the monthly Total Coliform results of the Point Loma Treatment Plant Effluent. The value is stated in terms of Most Probable Number (MPN) per 100 milliliters of sample.

SAMPLE SOURCE (Pt. Loma Treatment Plant Effluent)

DATE	TOTAL COLIFORM (MPN Index/100ml)
January 8, 2002	2,300,000
February 15, 2002	50,000,000
March 14, 2002	13,000,000
April 8, 2002	30,000,000
May 23, 2002	13,000,000
June 19, 2002	13,000,000
July 24, 2002	3,000,000
August 1, 2002	23,000,000
September 24, 2002	22,000,000
October 8, 2002	3,000,000
November 27, 2002	13,000,000
December 13, 2002	13,000,000
Average	16,525,000

POINT LOMA WASTEWATER TREATMENT PLANT
From 01-JAN-2002 To 31-DEC-2002

SAMPLED BY: NL,JC,GR,MS,MC
ANALYZED BY: HD,JC,MC,GR,GS,JW,FM

	Total Hardness		Calcium Hardness		Magnesium Hardness		Calcium	
MDL:	.22	mg/L	.2	mg/L	.08	mg/L	.08	mg/L
Months	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.
JANUARY -2002	429	407	219	205	210	203	88	82
FEBRUARY -2002	434	408	222	202	211	207	89	81
MARCH -2002	452	431	230	212	222	219	92	85
APRIL -2002	443	414	225	203	218	211	90	81
MAY -2002	477	432	241	211	236	222	97	84
JUNE -2002	473	448	231	214	241	235	93	86
JULY -2002	485	464	237	221	248	243	95	89
AUGUST -2002	459	431	224	204	235	227	90	82
SEPTEMBER-2002	460	424	221	197	240	227	88	79
OCTOBER -2002	420	399	201	189	218	211	81	76
NOVEMBER -2002	420	395	210	193	210	203	84	77
DECEMBER -2002	495	469	247	228	248	241	99	91
Average:	454	427	226	207	228	221	91	83

	Alkalinity		Total Solids		Total Volatile Solids		Conductivity	
MDL:	1.5	mg/L	100	mg/L	100	mg/L	10	umhos/cm
Months	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.
JANUARY -2002	287	253	1840	1570	440	244	2620	2600
FEBRUARY -2002	276	250	1810	1610	464	279	2640	2640
MARCH -2002	288	261	1790	1560	460	252	2740	2770
APRIL -2002	288	260	1840	1600	480	285	2650	2630
MAY -2002	290	268	1930	1680	508	307	2730	2750
JUNE -2002	279	252	2030	1790	533	332	2820	2840
JULY -2002	289	261	2150	1870	575	365	2940	2940
AUGUST -2002	292	268	2040	1810	559	373	2780	2800
SEPTEMBER-2002	278	254	2030	1800	522	341	2820	2810
OCTOBER -2002	278	247	1970	1710	500	289	2820	2810
NOVEMBER -2002	281	254	1960	1680	494	280	2730	2760
DECEMBER -2002	277	244	1970	1770	515	350	2760	2770
Average:	284	256	1947	1704	504	308	2754	2760

	Chloride		Bromide		Sulfate		Nitrate	
MDL:	.8	mg/L	.02	mg/L	.5	mg/L	.03	mg/L
Months	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.
JANUARY -2002	528	526	1.26	1.20	256	251	ND	0.61
FEBRUARY -2002	532	547	1.31	1.31	253	251	ND	0.49
MARCH -2002	577	588	1.46	1.46	259	254	ND	0.10
APRIL -2002	527	548	1.29	1.31	251	247	ND	0.52
MAY -2002	583	595	1.43	1.30	254	250	ND	0.86
JUNE -2002	631	646	1.38	1.50	260	256	ND	0.12
JULY -2002	663	664	1.53	1.47	257	250	ND	0.94
AUGUST -2002	607	625	1.57	1.33	255	249	0.28	ND
SEPTEMBER-2002	621	647	1.52	1.39	260	256	ND	0.87
OCTOBER -2002	614	623	1.06	1.34	252	246	0.20	2.37
NOVEMBER -2002	607	627	2.03	1.16	251	250	ND	1.38
DECEMBER -2002	657	634	0.74	0.96	275	266	ND	0.79
Average:	596	606	1.38	1.31	257	252	0.04	0.75

ND=not detected; NS=not sampled; NA=not analyzed; NR=not required
Samples are 24 hour composites

POINT LOMA WASTEWATER TREATMENT PLANT
From 01-JAN-2002 To 31-DEC-2002

SAMPLED BY: NL,JC,GR,MS,MC
ANALYZED BY: HD,JC,MC,GR,GS,JW,FM

	Lithium		Sodium		Potassium		Chemical Oxygen Demand	
MDL:	.01	mg/L	.3	mg/L	2	mg/L	22	mg/L
Months	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.
JANUARY -2002	0.04	0.04	339	329	29.2	27.6	580	243
FEBRUARY -2002	0.04	0.04	338	339	33.4	33.3	605	253
MARCH -2002	0.05	0.05	356	353	34.6	33.9	578	250
APRIL -2002	0.04	0.04	341	342	31.0	29.9	664	243
MAY -2002	0.02	0.05	376	358	33.7	33.2	607	251
JUNE -2002	0.05	0.04	390	382	30.6	30.3	571	236
JULY -2002	0.05	0.04	412	395	33.9	34.9	583	241
AUGUST -2002	0.04	0.04	382	370	29.6	28.4	575	222
SEPTEMBER-2002	0.06	0.04	389	371	35.1	30.0	568	228
OCTOBER -2002	0.05	0.03	355	346	31.5	29.1	548	198
NOVEMBER -2002	0.04	0.04	337	331	28.0	25.9	691	244
DECEMBER -2002	0.03	0.04	400	393	29.5	27.7	607	253
Average:	0.04	0.04	368	359	31.7	30.4	598	239

	Total Dissolved Solids		Floatables		Turbidity		Aluminum	
MDL:	42	mg/L	.1	mg/L		NTU	50	ug/L
Months	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.
JANUARY -2002	1490	1480	3.5	0.1	149	42	1720	138
FEBRUARY -2002	1490	1490	1.7	0.1	144	48	1730	184
MARCH -2002	1550	1540	2.6	0.1	144	45	1680	151
APRIL -2002	1560	1540	3.4	0.1	148	43	2130	228
MAY -2002	1590	1580	1.6	0.1	156	43	1910	240
JUNE -2002	1690	1700	2.7	0.1	159	45	2030	214
JULY -2002	1770	1760	1.9	0.1	166	48	2310	201
AUGUST -2002	1640	1640	1.3	0.1	154	46	1870	302
SEPTEMBER-2002	1730	1720	1.9	0.2	154	44	1790	138
OCTOBER -2002	1600	1590	2.7	0.2	151	46	1650	108
NOVEMBER -2002	1620	1600	3.8	0.1	137	44	1990	118
DECEMBER -2002	1610	1590	4.4	0.1	137	43	1600	182
Average:	1612	1603	2.6	0.1	150	45	1868	184

	Boron		Cobalt		Molybdenum		Manganese	
MDL:	15	ug/L	4	ug/L	3	ug/L	4	ug/L
Months	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.
JANUARY -2002	456	458	ND	ND	10	5	121	130
FEBRUARY -2002	527	448	ND	ND	9	8	123	134
MARCH -2002	457	405	NR	NR	NR	NR	141	152
APRIL -2002	528	482	4	<4	9	5	128	138
MAY -2002	541	537	ND	ND	5	5	185	181
JUNE -2002	509	368	ND	ND	17	6	172	169
JULY -2002	466	313	<4	ND	16	3	160	183
AUGUST -2002	515	507	ND	ND	11	10	178	179
SEPTEMBER-2002	547	504	NR	NR	NR	NR	155	178
OCTOBER -2002	423	427	<4	<4	9	7	129	150
NOVEMBER -2002	472	457	ND	ND	NR	NR	134	146
DECEMBER -2002	484	451	NR	NR	NR	NR	150	162
Average:	494	446	0	0	11	6	148	159

ND=not detected; NS=not sampled; NA=not analyzed; NR=not required
Samples are 24 hour composites

POINT LOMA WASTEWATER TREATMENT PLANT
From 01-JAN-2002 To 31-DEC-2002

SAMPLED BY: NL,JC,GR,MS,MC
ANALYZED BY: HD,JC,MC,GR,GS,JW,FM

	Magnesium		Fluoride		Ortho Phosphate		Soluble BOD	
MDL:	.02	mg/L	.03	mg/L	.05	mg/L	2	mg/L
Months	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.
JANUARY -2002	51	49	0.72	0.78	6.65	1.20	86	58
FEBRUARY -2002	51	50	0.59	0.63	6.37	1.35	91	67
MARCH -2002	54	53	0.82	0.96	6.07	1.30	94	63
APRIL -2002	53	51	0.58	0.60	6.43	0.65	88	59
MAY -2002	57	54	0.80	0.96	5.28	1.07	81	56
JUNE -2002	59	57	0.86	0.89	5.77	0.96	79	48
JULY -2002	60	59	0.79	0.66	5.47	1.74	81	49
AUGUST -2002	57	55	0.91	0.84	6.14	2.30	80	49
SEPTEMBER-2002	58	55	1.10	0.78	6.31	1.63	82	59
OCTOBER -2002	53	51	0.74	0.77	4.36	0.98	87	67
NOVEMBER -2002	51	49	0.78	0.79	4.90	1.20	92	73
DECEMBER -2002	60	59	0.77	0.78	3.09	ND	87	62
Average:	55	54	0.79	0.79	5.57	1.20	86	59

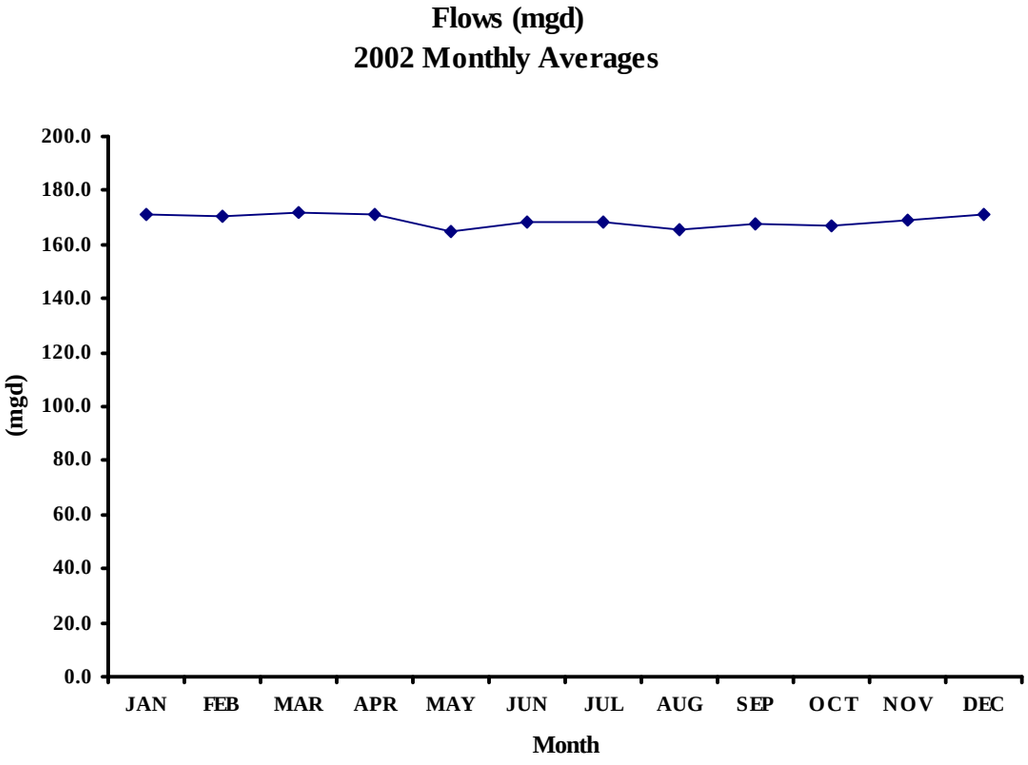
	Barium		Vanadium	
MDL:	10	ug/L	7	ug/L
Months	Inf.	Eff.	Inf.	Eff.
JANUARY -2002	121	34	ND	ND
FEBRUARY -2002	109	37	ND	ND
MARCH -2002	116	37	NR	NR
APRIL -2002	121	37	ND	ND
MAY -2002	123	37	ND	ND
JUNE -2002	115	35	<7	ND
JULY -2002	126	41	ND	ND
AUGUST -2002	113	36	<7	ND
SEPTEMBER-2002	105	36	NR	NR
OCTOBER -2002	105	34	<7	<7
NOVEMBER -2002	116	37	NR	NR
DECEMBER -2002	106	37	NR	NR
Average:	115	37	0	0

ND=not detected; NS=not sampled; NA=not analyzed; NR=not required
Samples are 24 hour composites

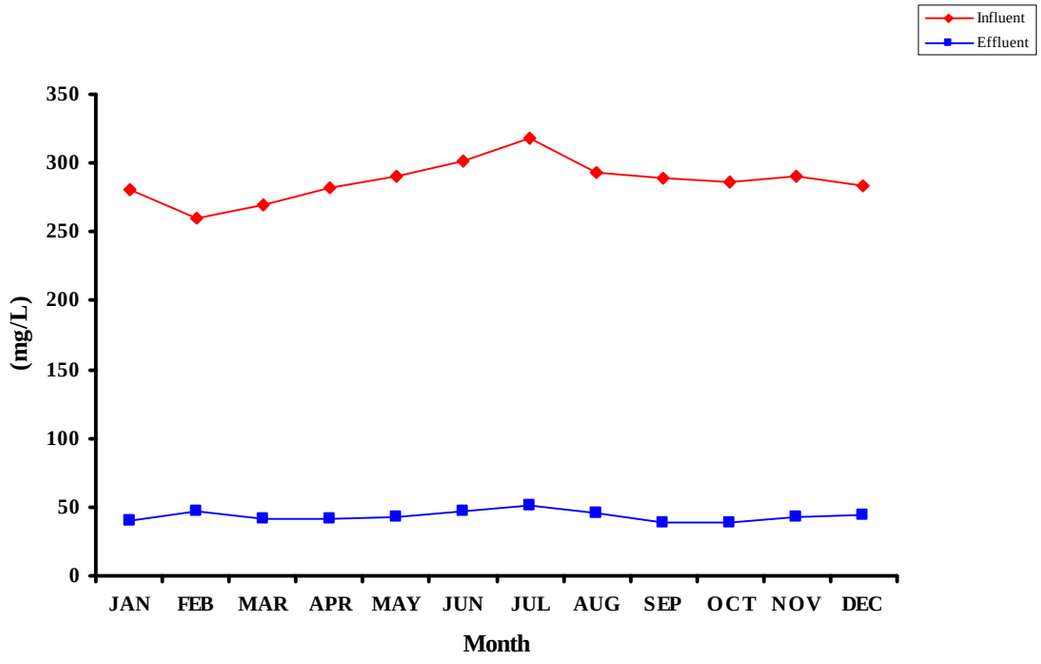
B. Influent and Effluent Graphs.

Graphs of monthly averages for permit parameters with measurable concentration averages.

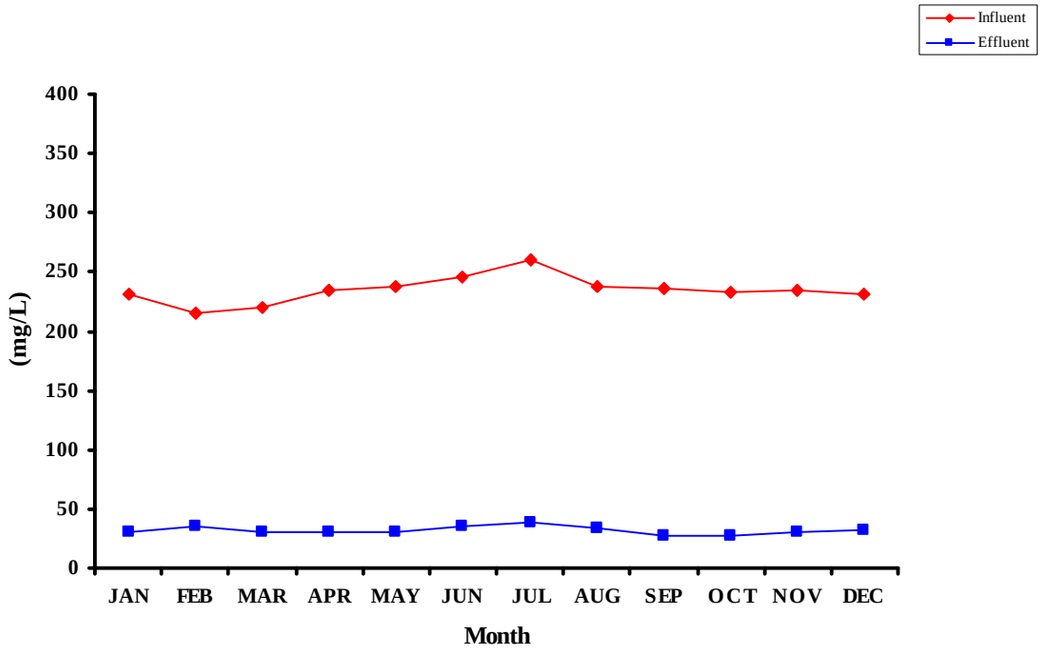
Where possible, the influent and effluent values of a given parameter have been included on the same graph so that removals and other relationships are readily apparent. Please note that many of the graphs are on expanded scales. That is, they normally don't go to zero concentrations but show, in magnified scale, that range of concentrations where variation takes place. This makes differences and some trends obvious that might normally not be noticed. However, it also provides the temptation to interpret minor changes or trends as being of more significance than they are. Frequent reference to the scales and the actual differences in concentrations is therefore necessary.



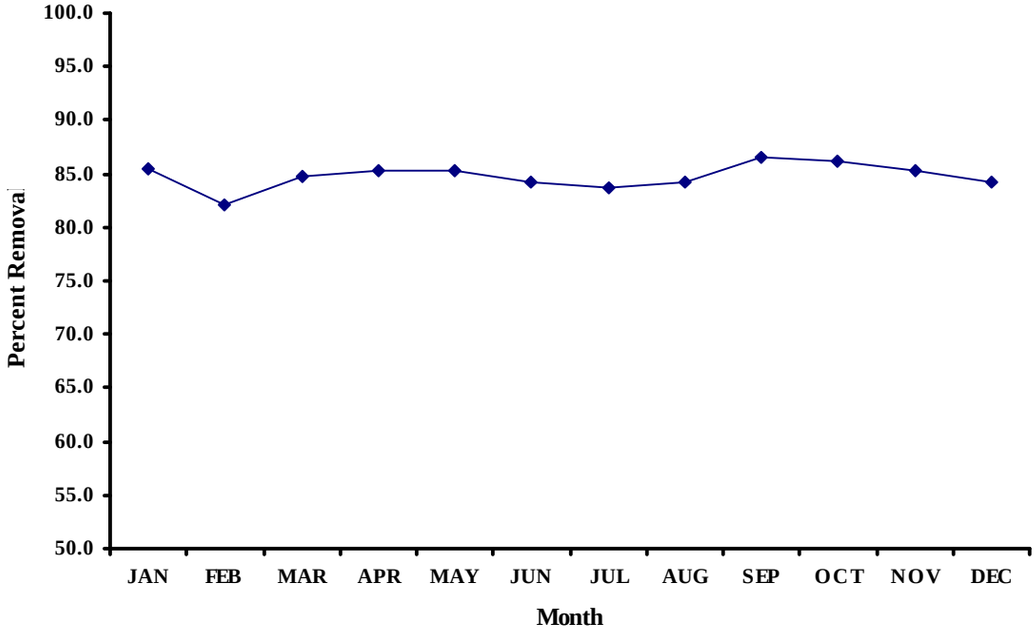
Total Suspended Solids (mg/L)
2002 Monthly Averages



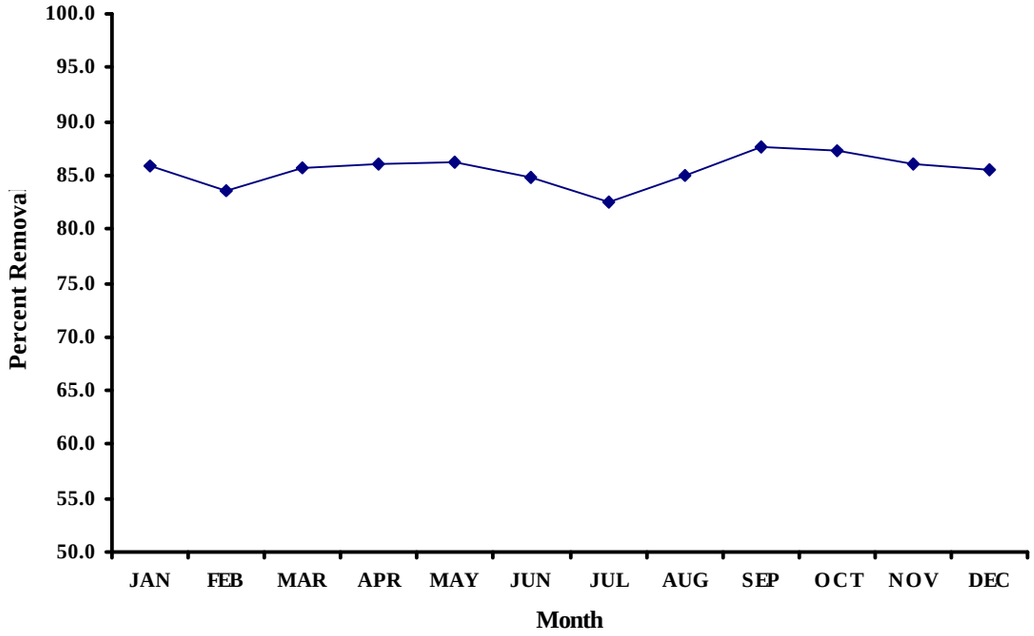
Volatile Suspended Solids (mg/L)
2002 Monthly Averages



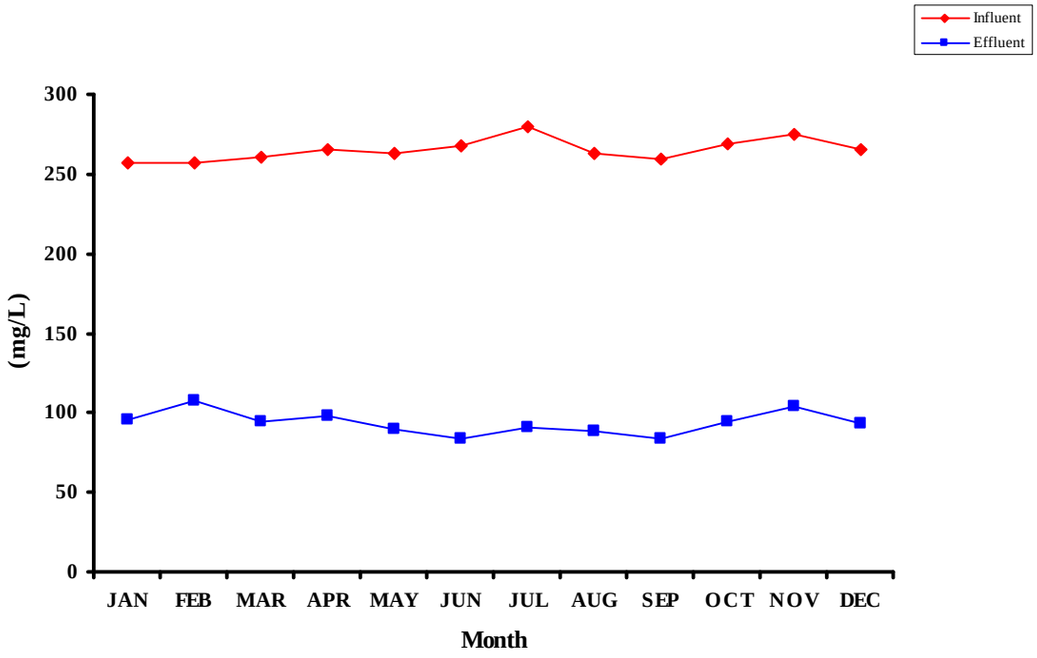
Total Suspended Solids (%) Removal
2002 Monthly Averages at Point Loma



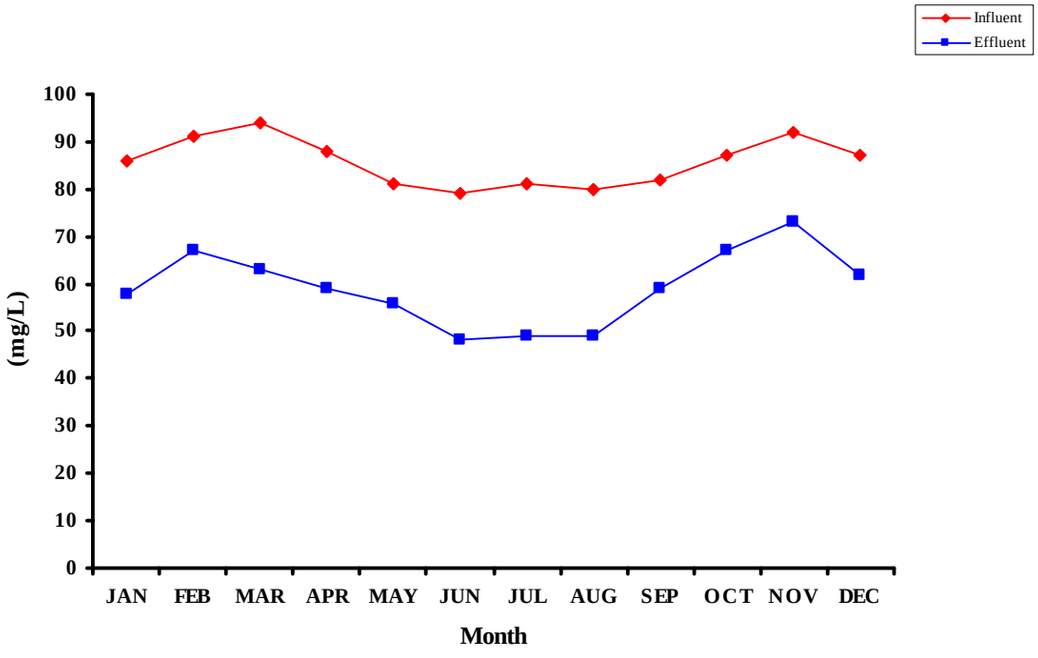
Total Suspended Solids (%) Removal
2002 Monthly Averages Systemwide



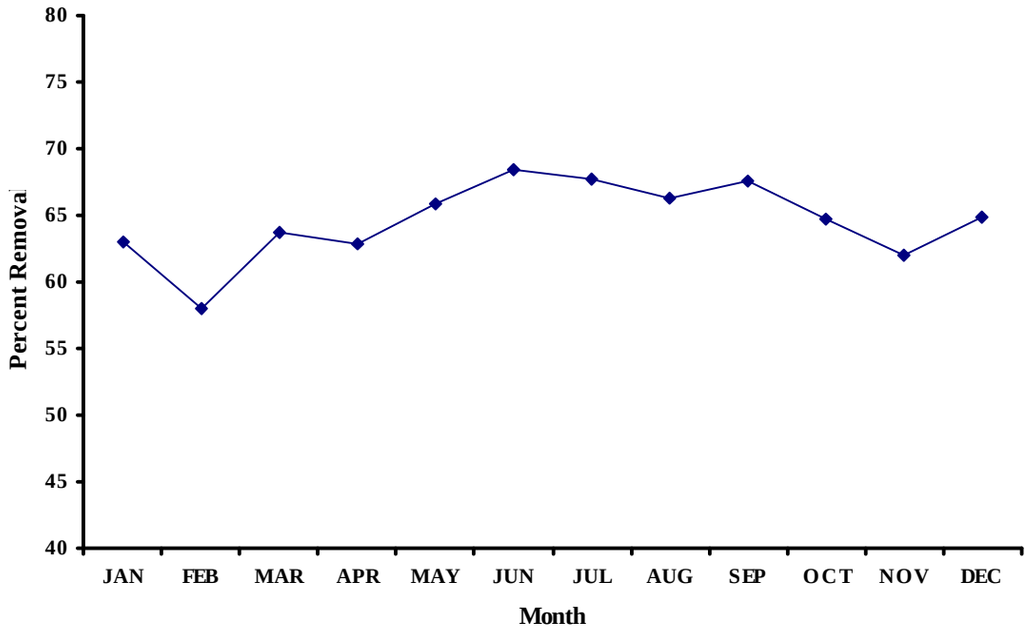
Biochemical Oxygen Demand
2002 Monthly Averages



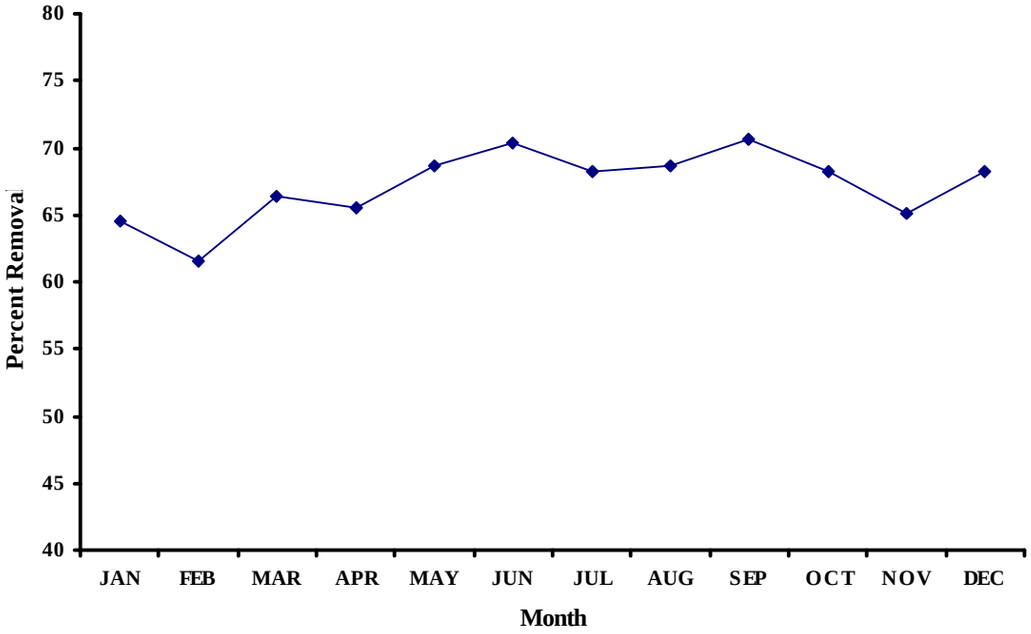
Soluble Biochemical Oxygen Demand
2002 Monthly Averages



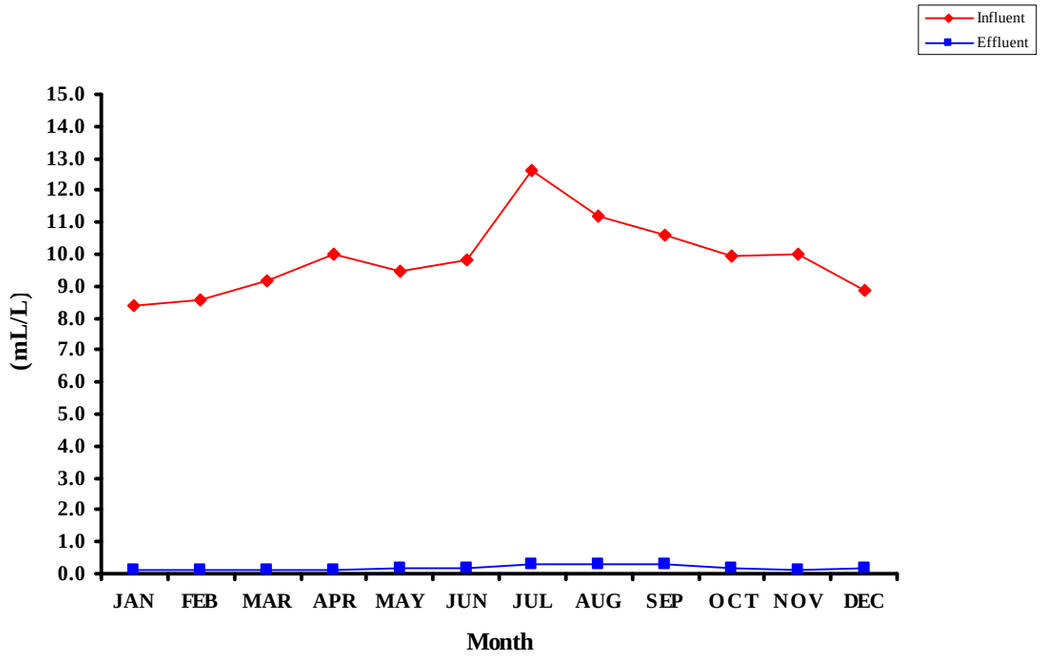
Biochemical Oxygen Demand (%) Removal
2002 Monthly Averages at Point Loma



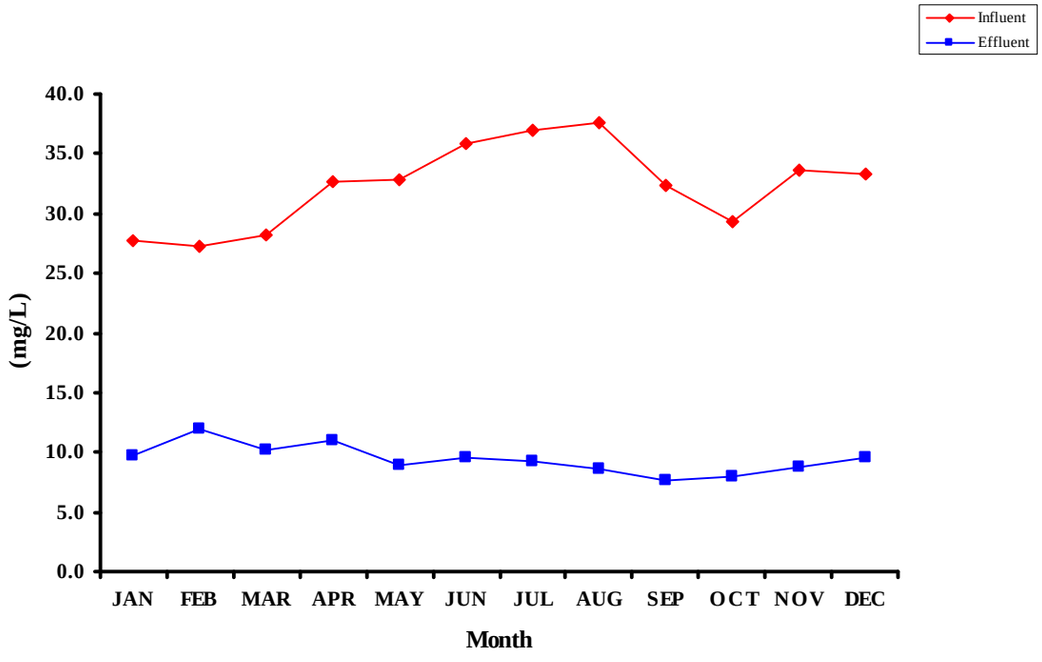
Biochemical Oxygen Demand (%) Removal
2002 Monthly Averages Systemwide



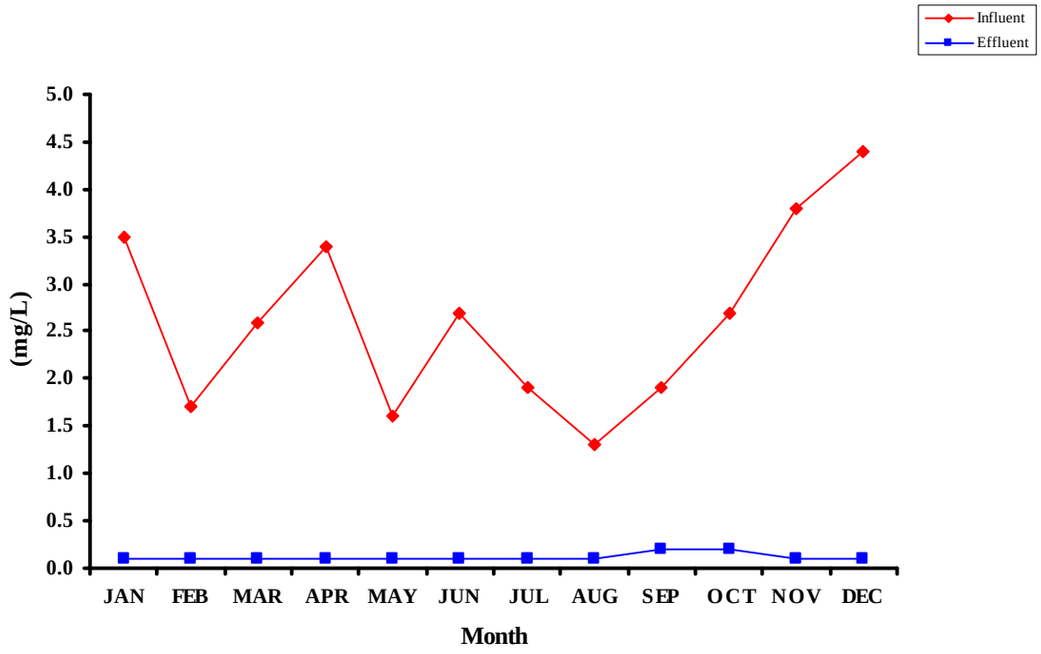
Settleable Solids (mL/L)
2002 Monthly Averages



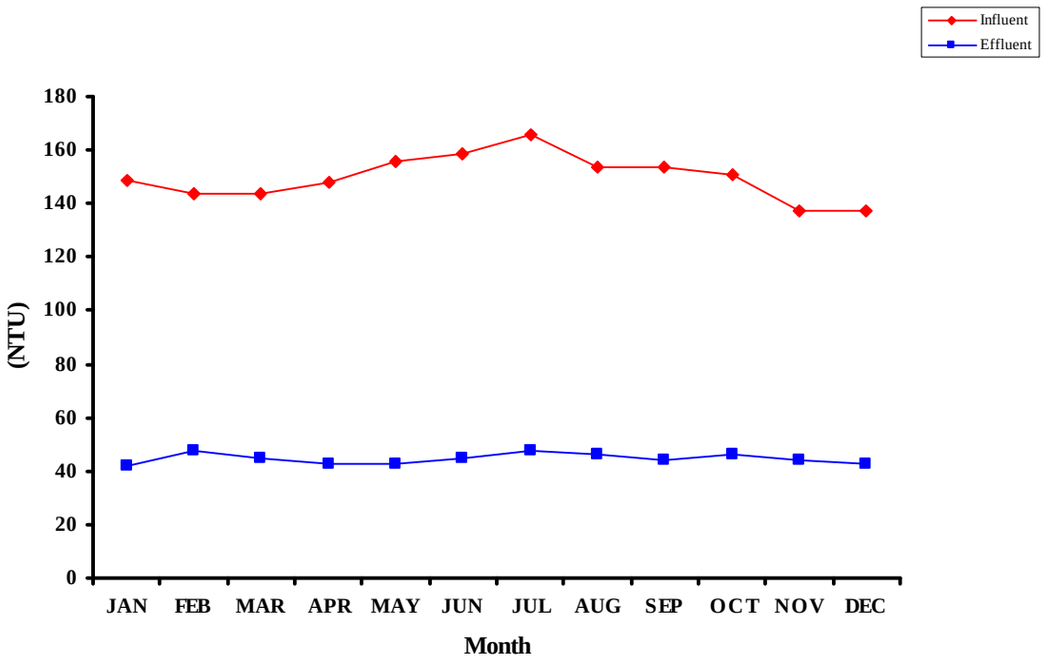
Oil and Grease (mg/L)
2002 Monthly Averages



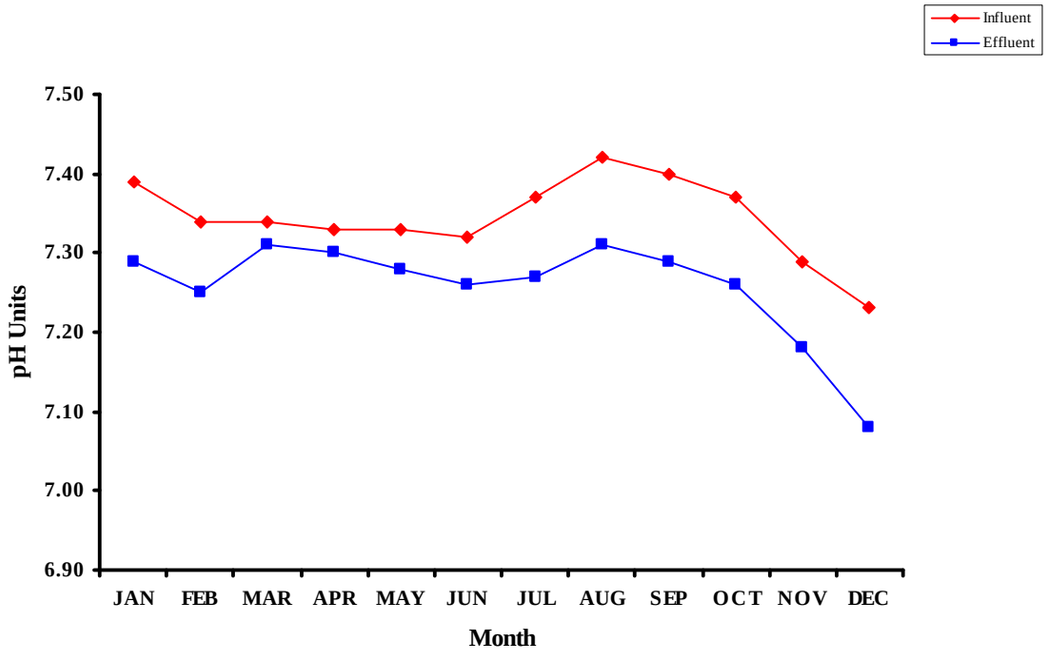
Floatables (mg/L)
2002 Monthly Averages



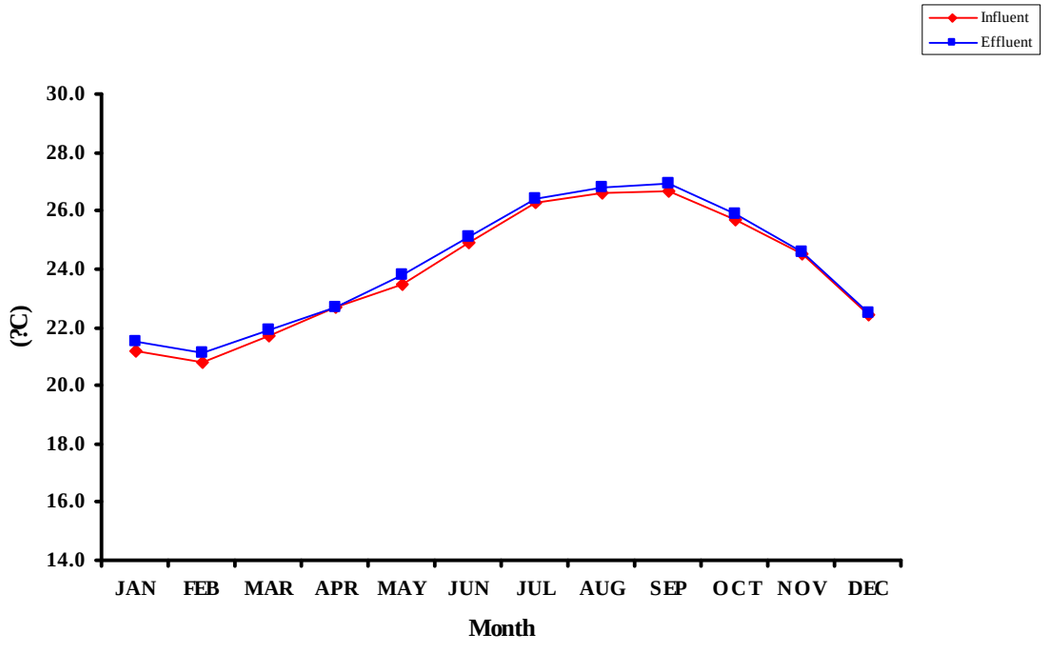
Turbidity (NTU)
2002 Monthly Averages



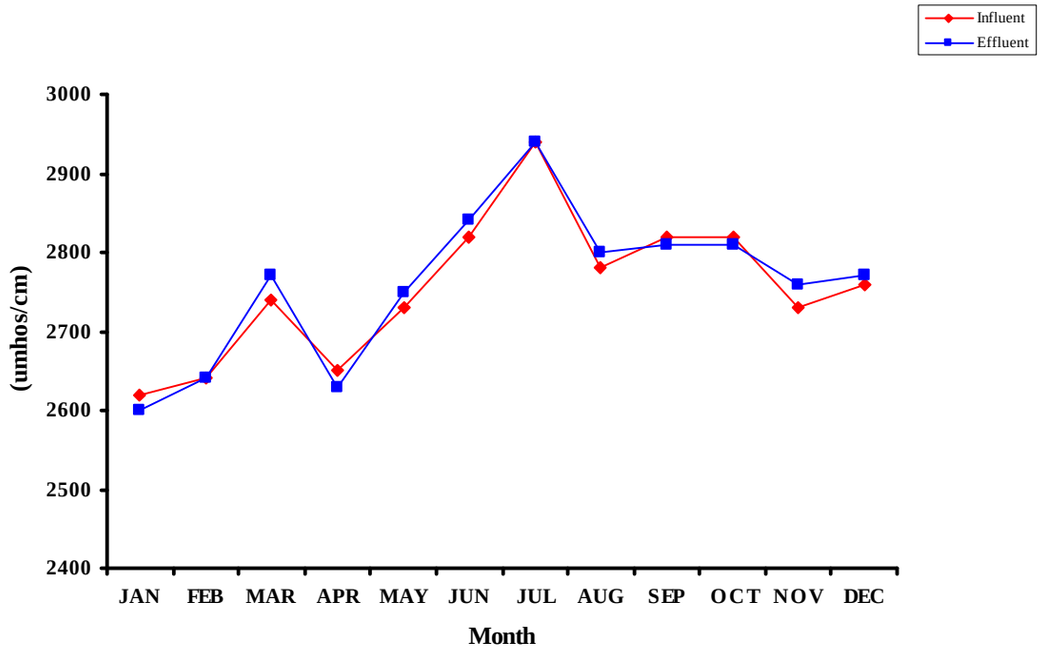
pH
2002 Monthly Averages



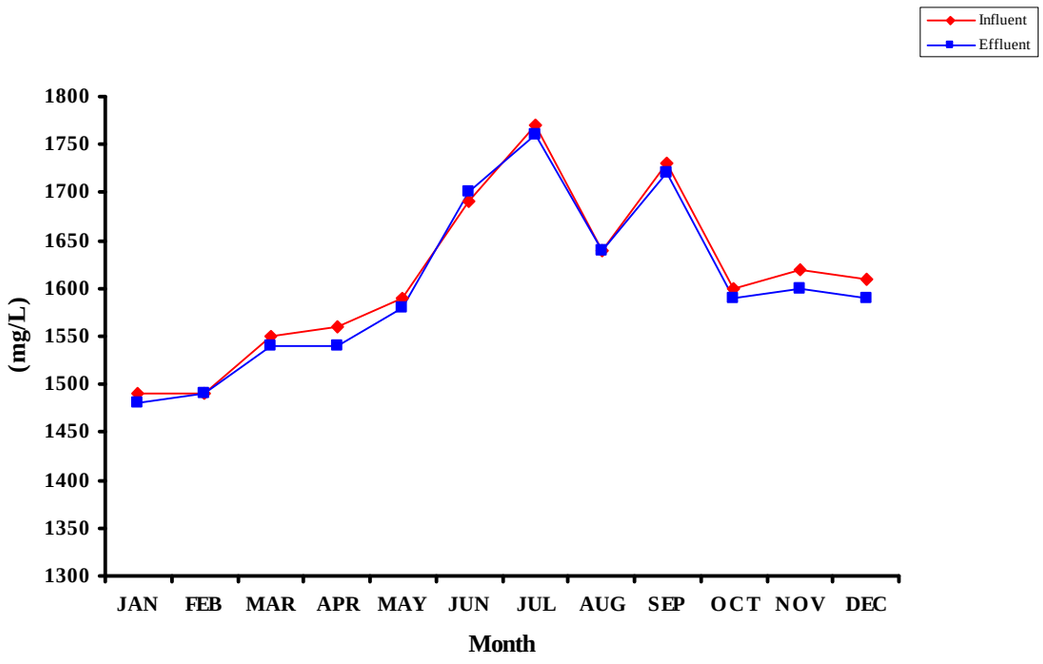
Temperature (?C)
2002 Monthly Averages



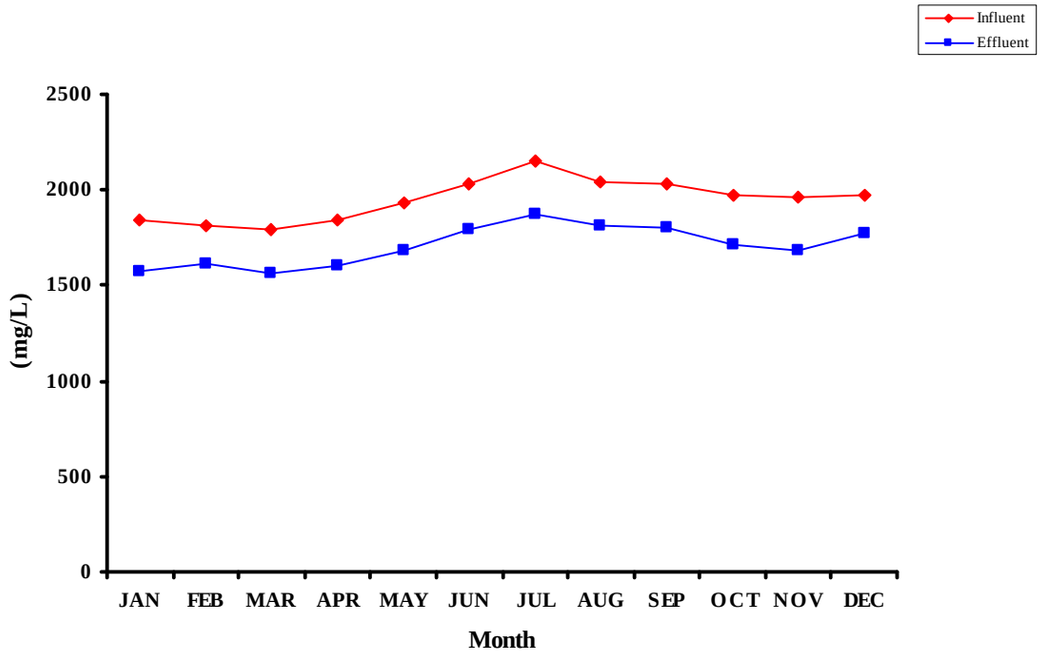
Conductivity (umhos/cm)
2002 Monthly Averages



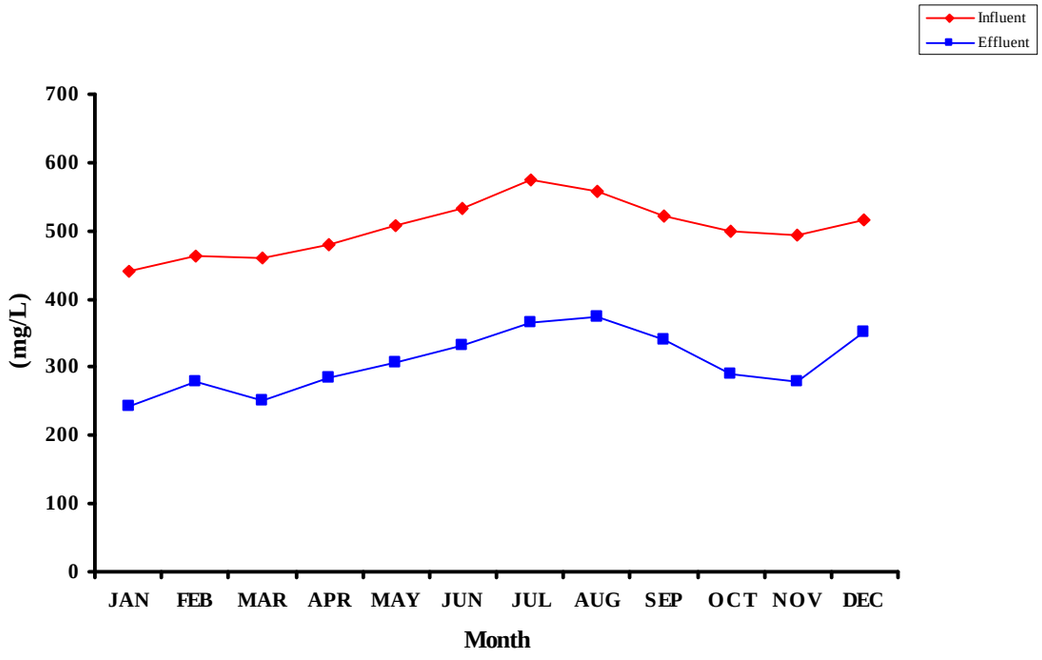
Total Dissolved Solids (mg/L)
2002 Monthly Averages



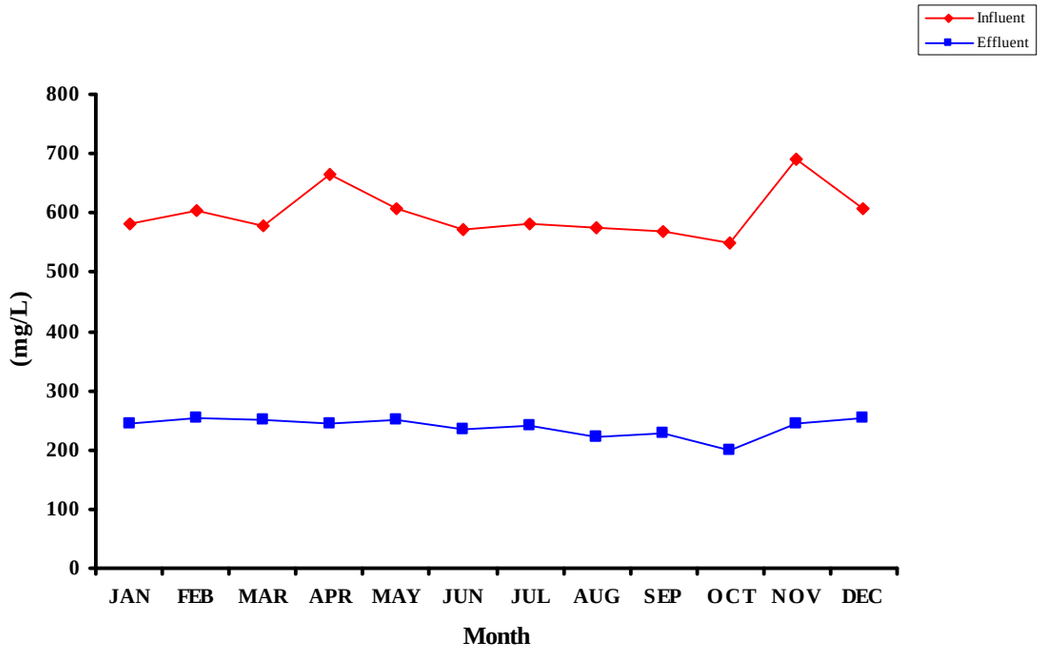
Total Solids (mg/L)
2002 Monthly Averages



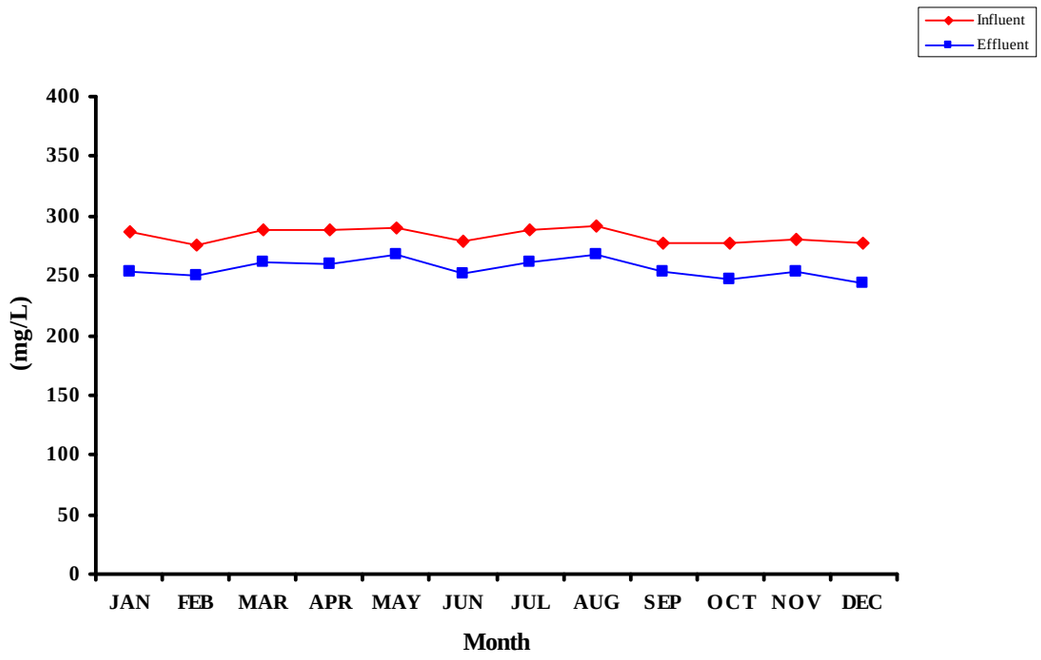
Total Volatile Solids (mg/L)
2002 Monthly Averages

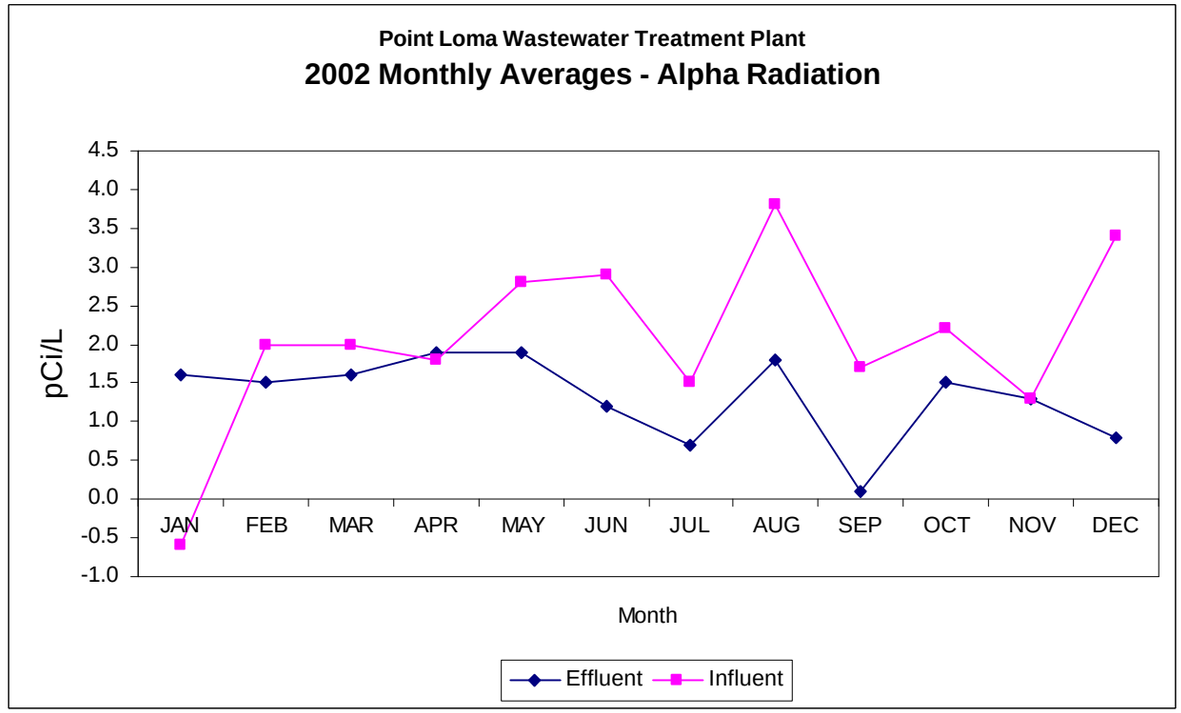


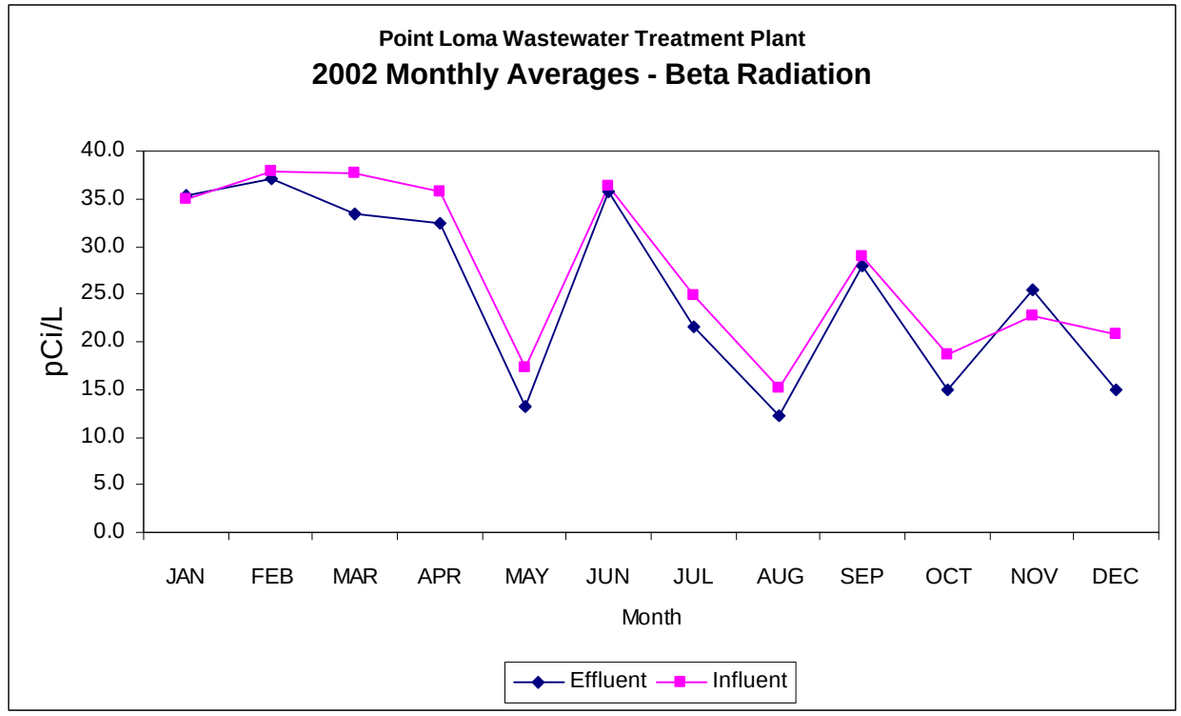
Chemical Oxygen Demand (mg/L)
2002 Monthly Averages

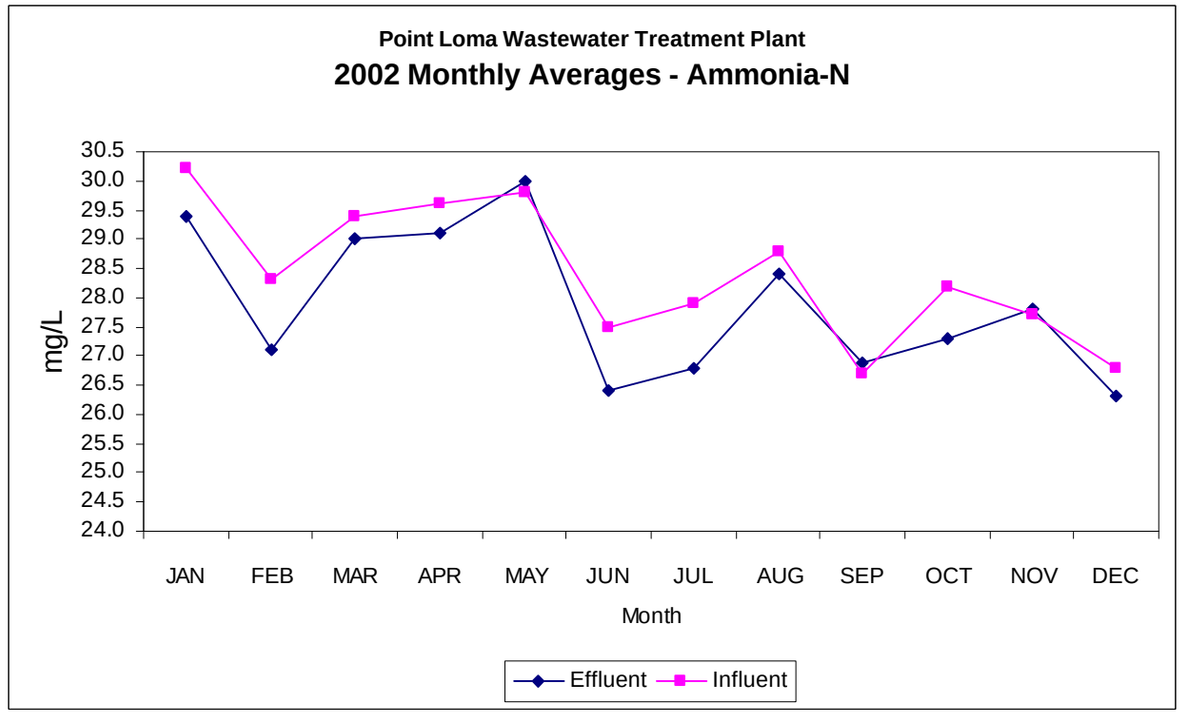


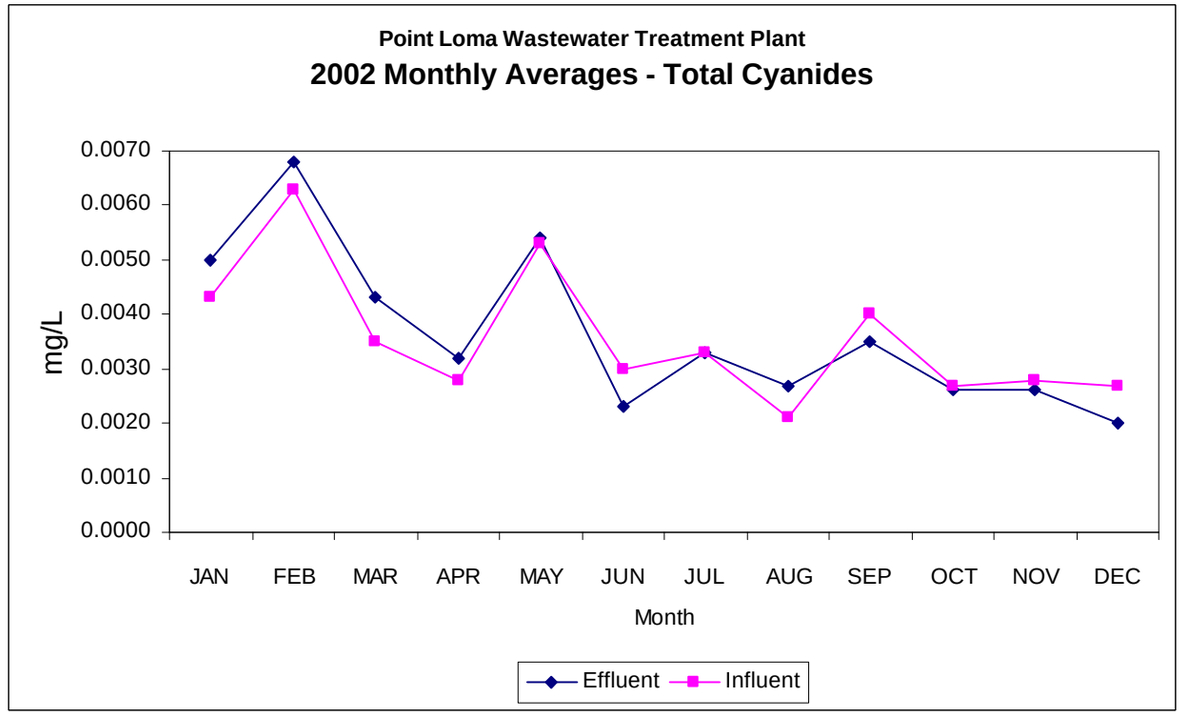
Alkalinity (mg/L)
2002 Monthly Averages



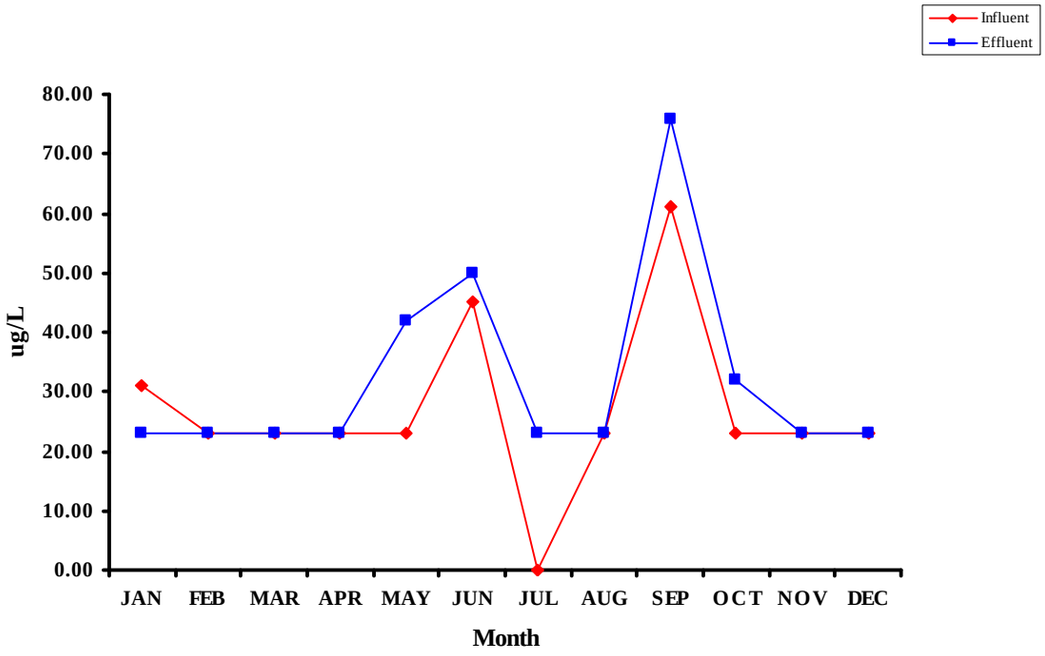

Point Loma Wastewater Treatment Plant
2002 Monthly Averages - Alpha Radiation
pCi/L
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
-0.5
-1.0
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC
Month
Effluent
Influent


Point Loma Wastewater Treatment Plant
2002 Monthly Averages - Beta Radiation
pCi/L
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC
Month
Effluent
Influent

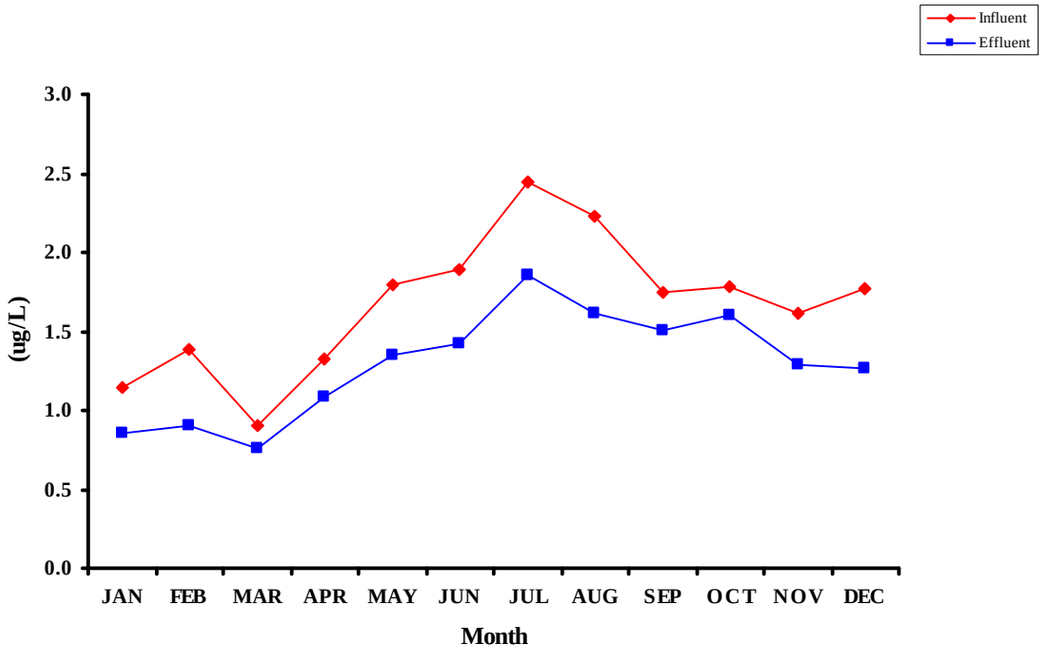

Point Loma Wastewater Treatment Plant
2002 Monthly Averages - Ammonia-N
mg/L
30.5
30.0
29.5
29.0
28.5
28.0
27.5
27.0
26.5
26.0
25.5
25.0
24.5
24.0
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC
Month
Effluent
Influent


Point Loma Wastewater Treatment Plant
2002 Monthly Averages - Total Cyanides
mg/L
0.0070
0.0060
0.0050
0.0040
0.0030
0.0020
0.0010
0.0000
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC
Month
Effluent
Influent

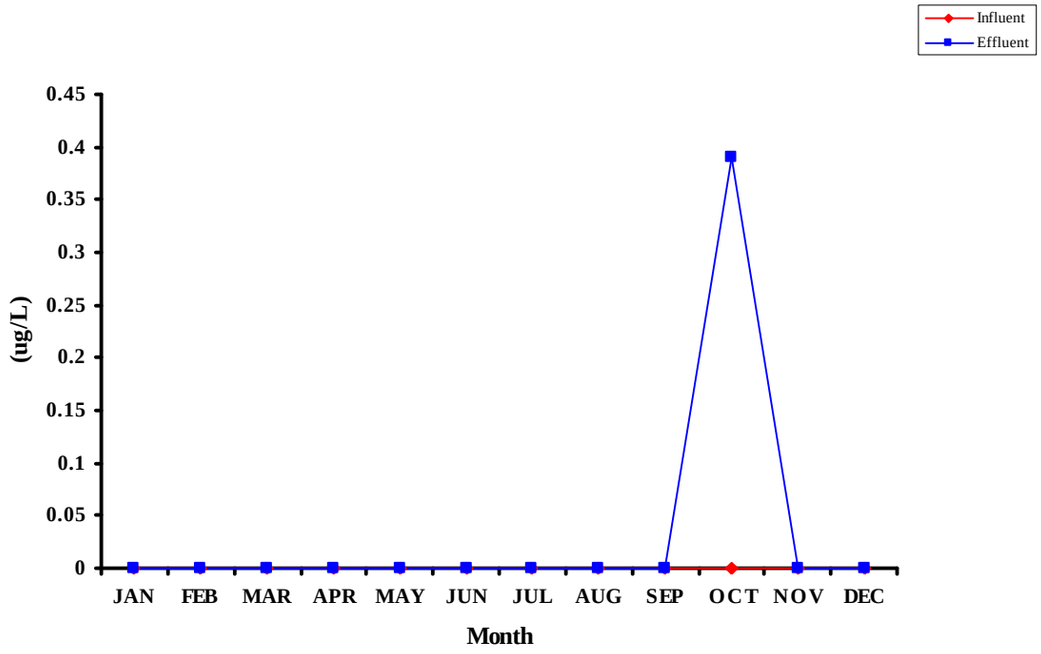
Antimony
2002 Monthly Averages



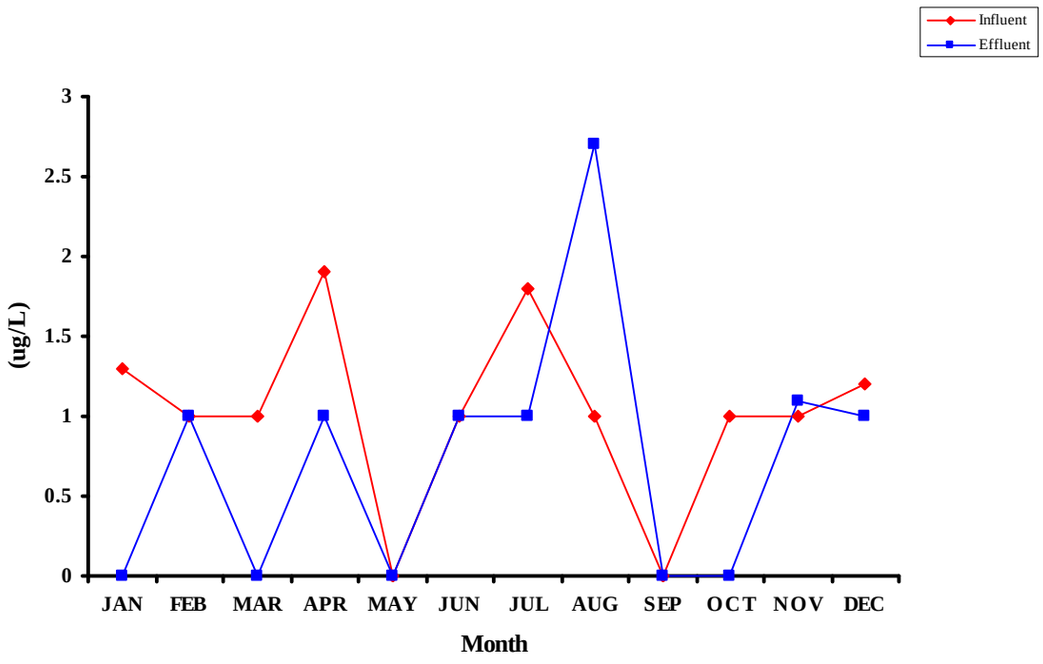
Arsenic
2002 Monthly Averages



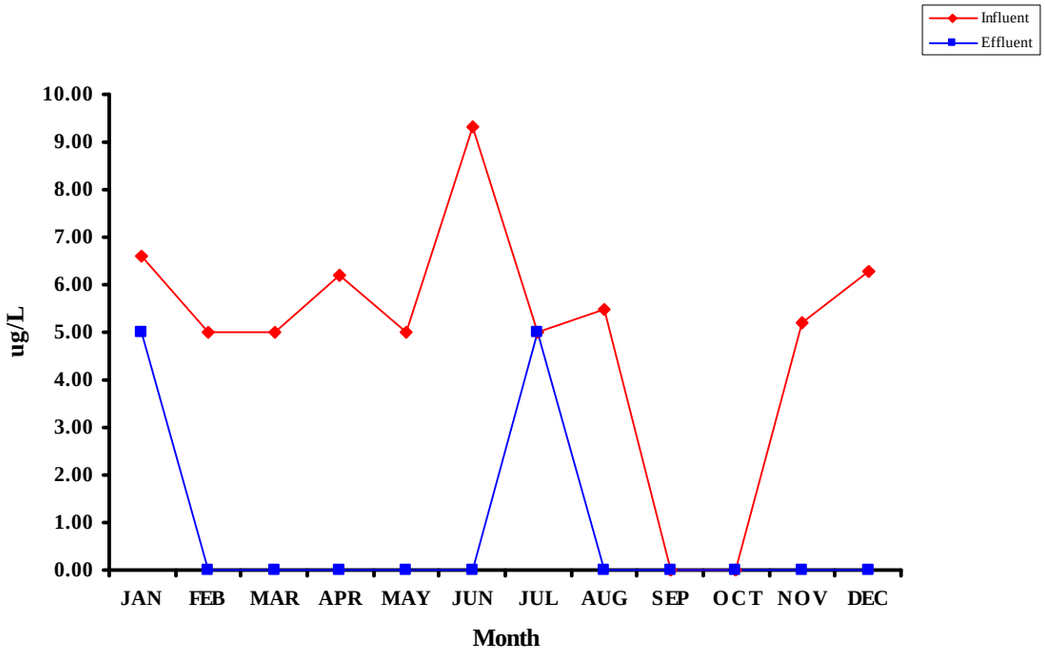
Beryllium
2002 Monthly Averages



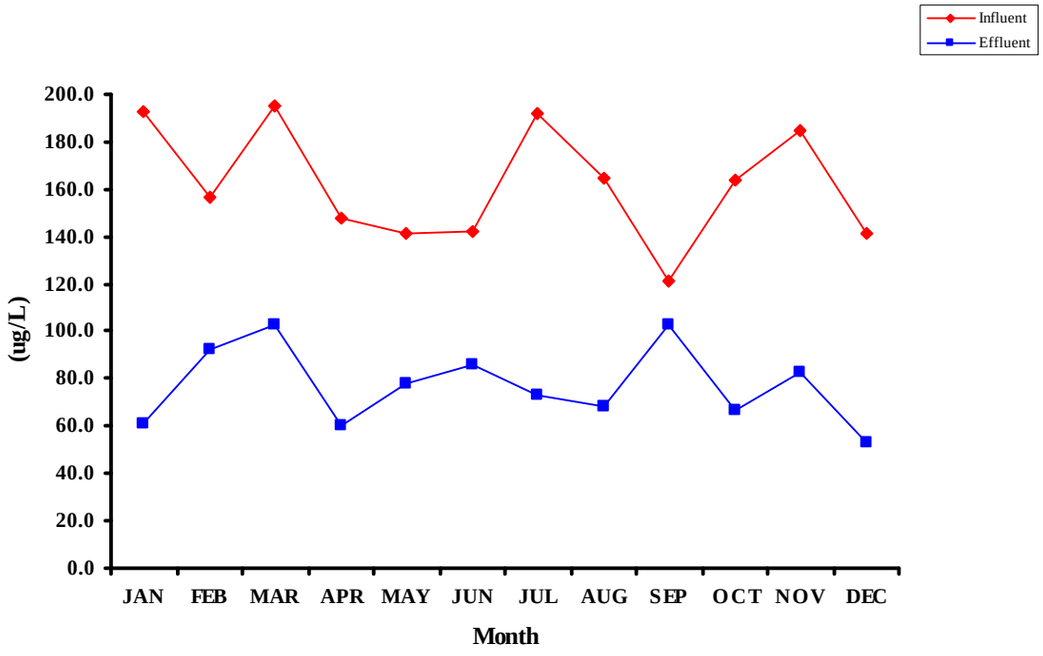
Cadmium
2002 Monthly Averages



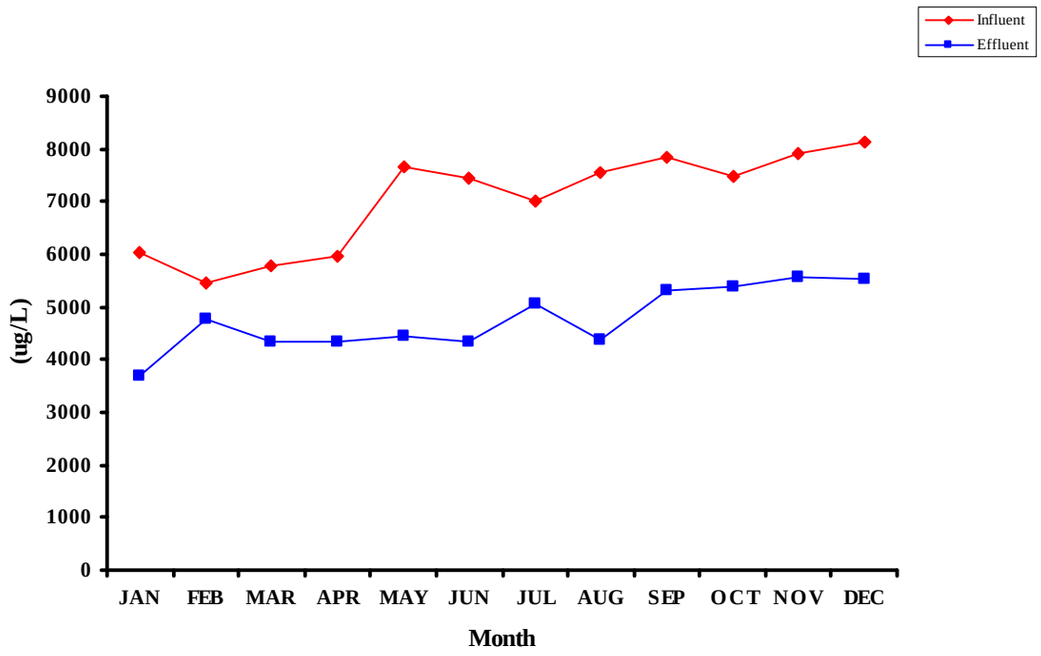
Chromium
2002 Monthly Averages



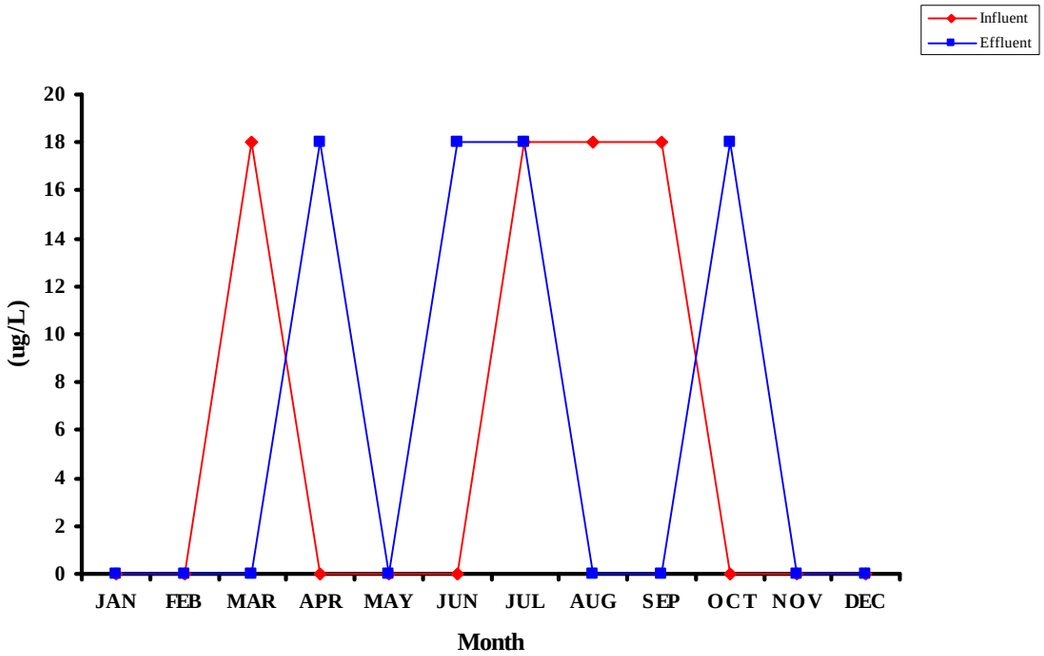
Copper
2002 Monthly Averages



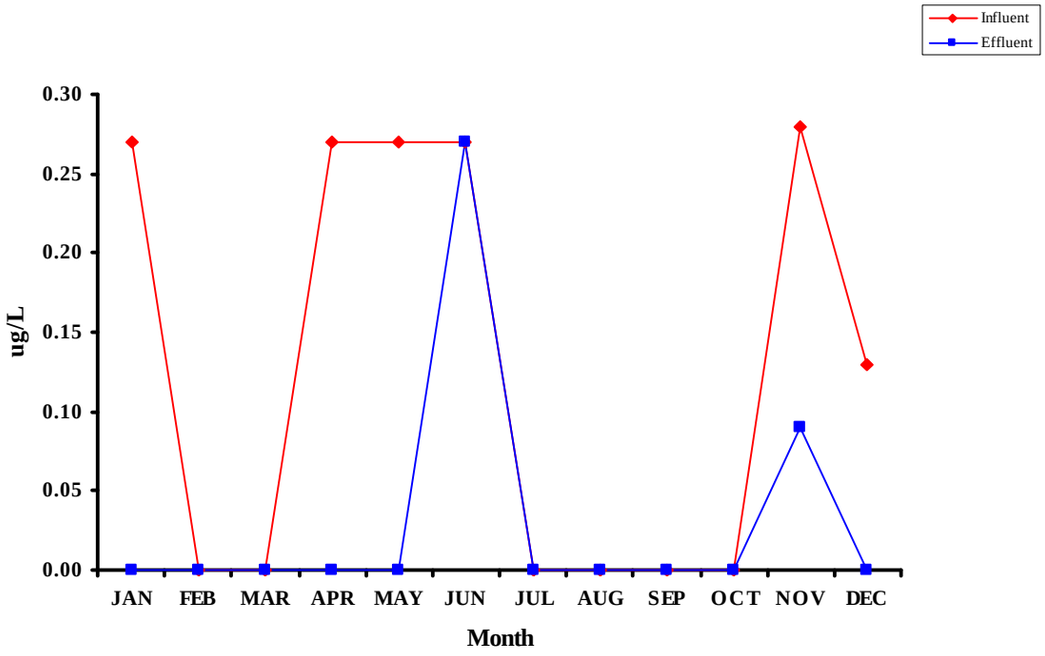
Iron
2002 Monthly Averages



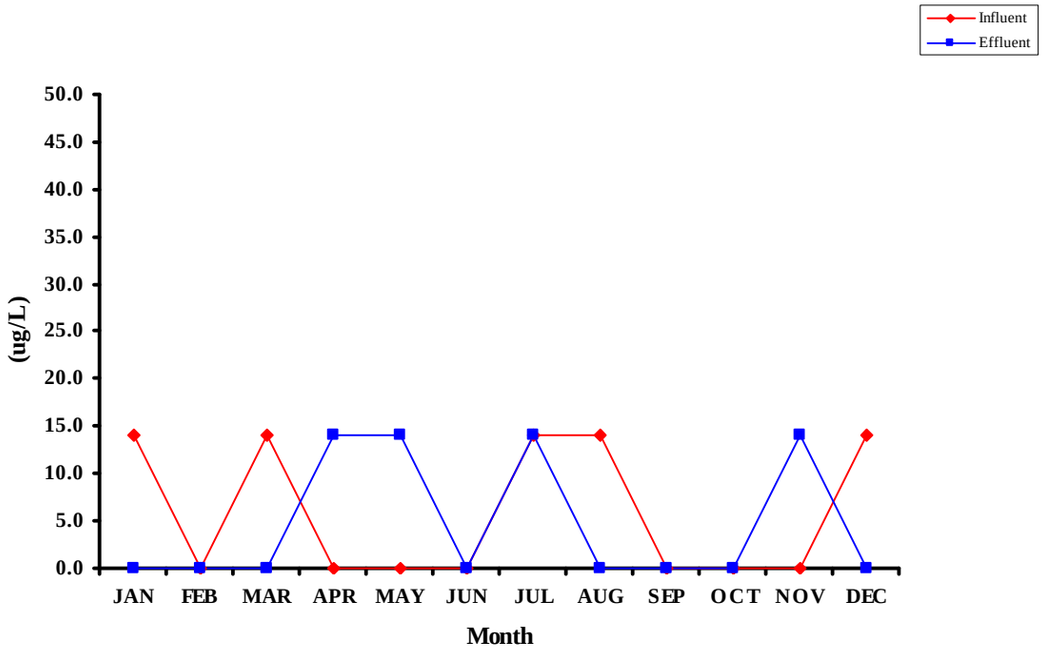
Lead
2002 Monthly Averages



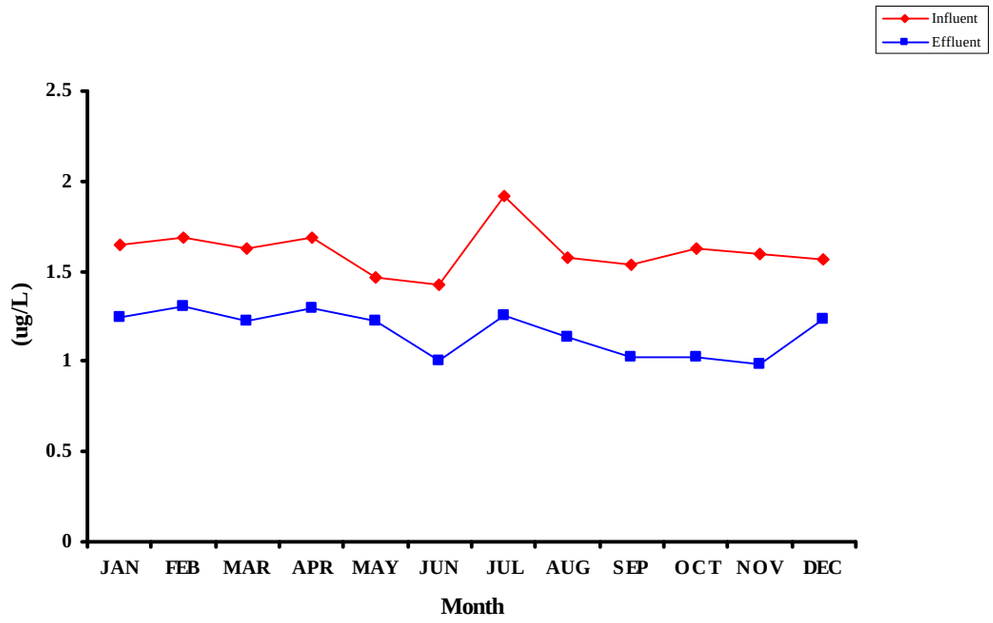
Chromium
2002 Monthly Averages



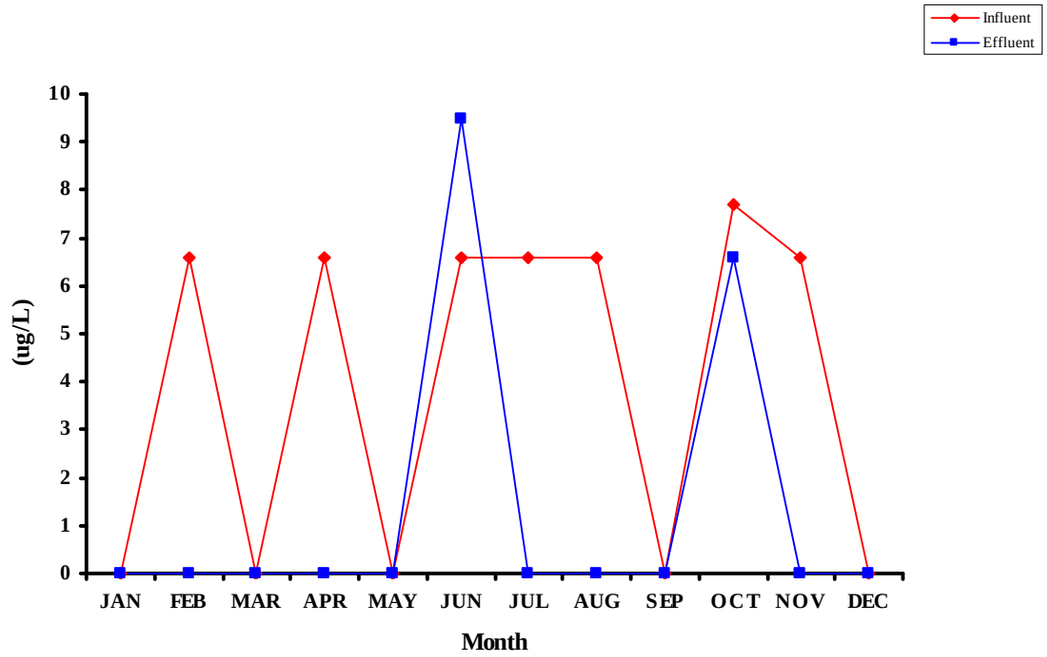
Nickel
2002 Monthly Averages



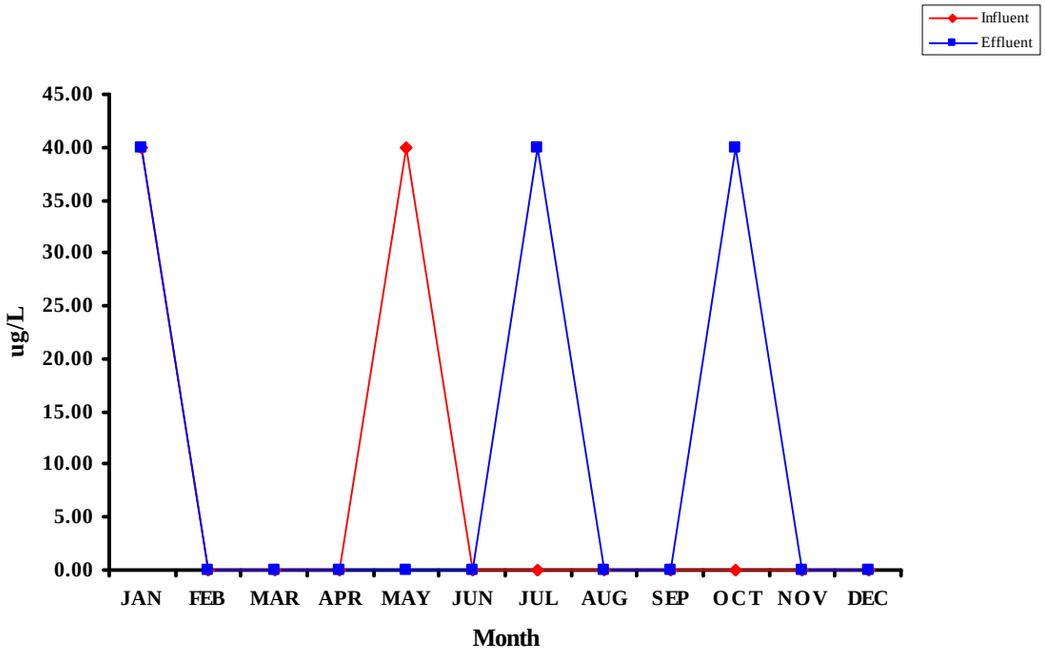
Selenium
2002 Monthly Averages



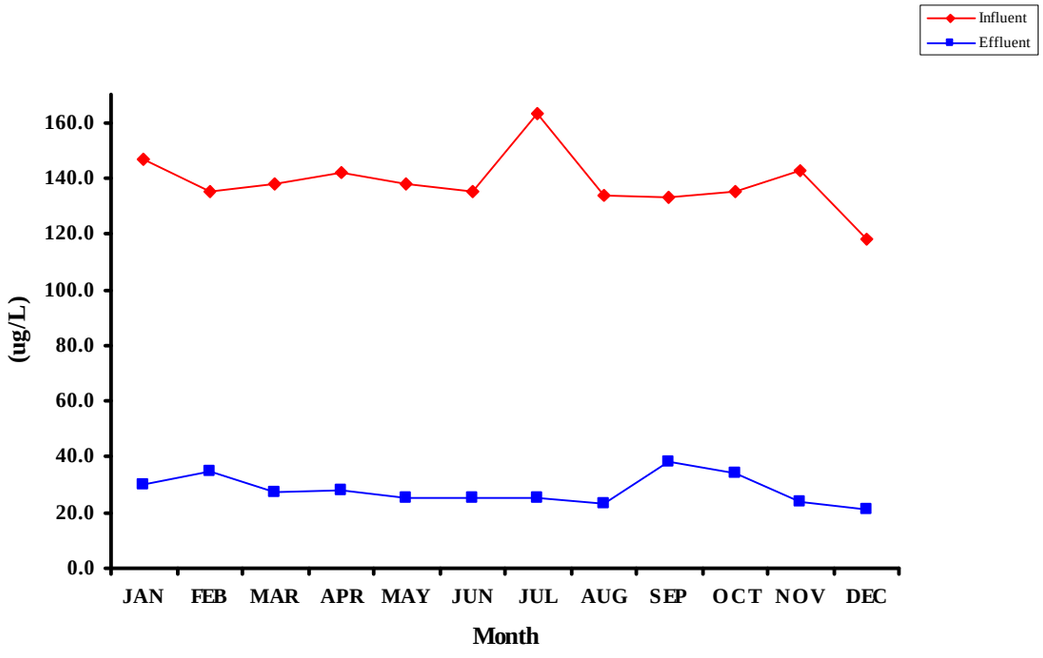
Silver
2002 Monthly Averages



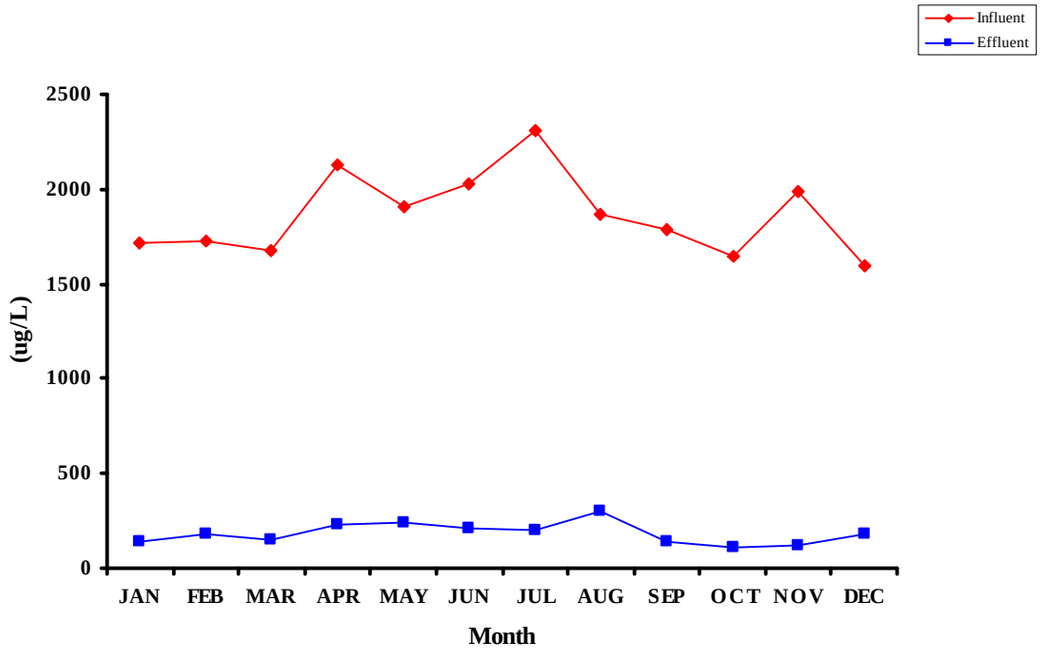
Thallium
2002 Monthly Averages



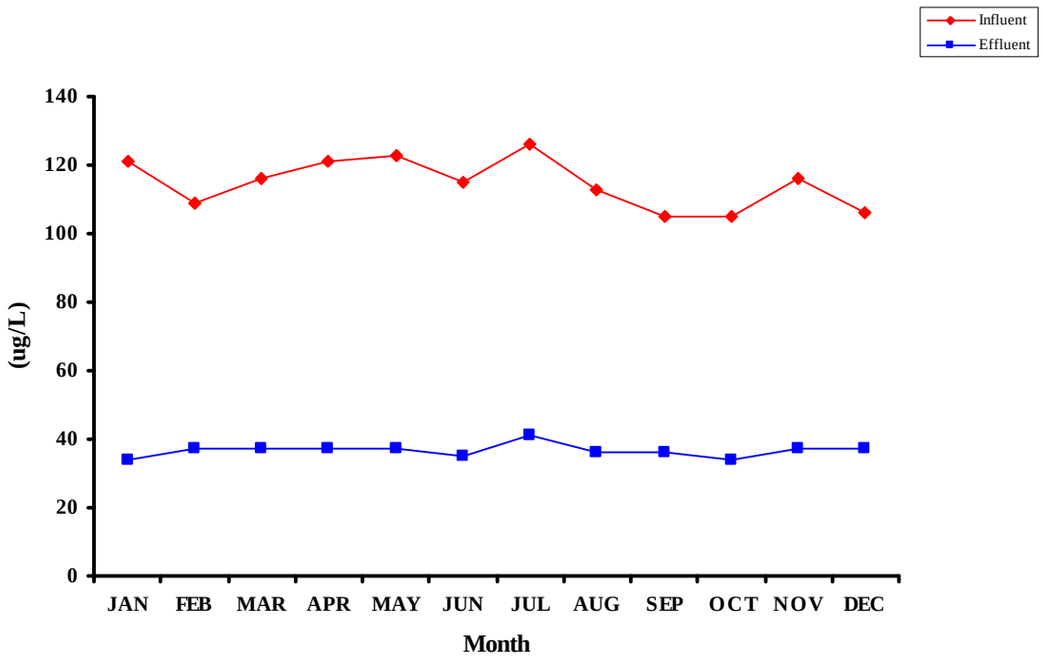
Zinc
2002 Monthly Averages



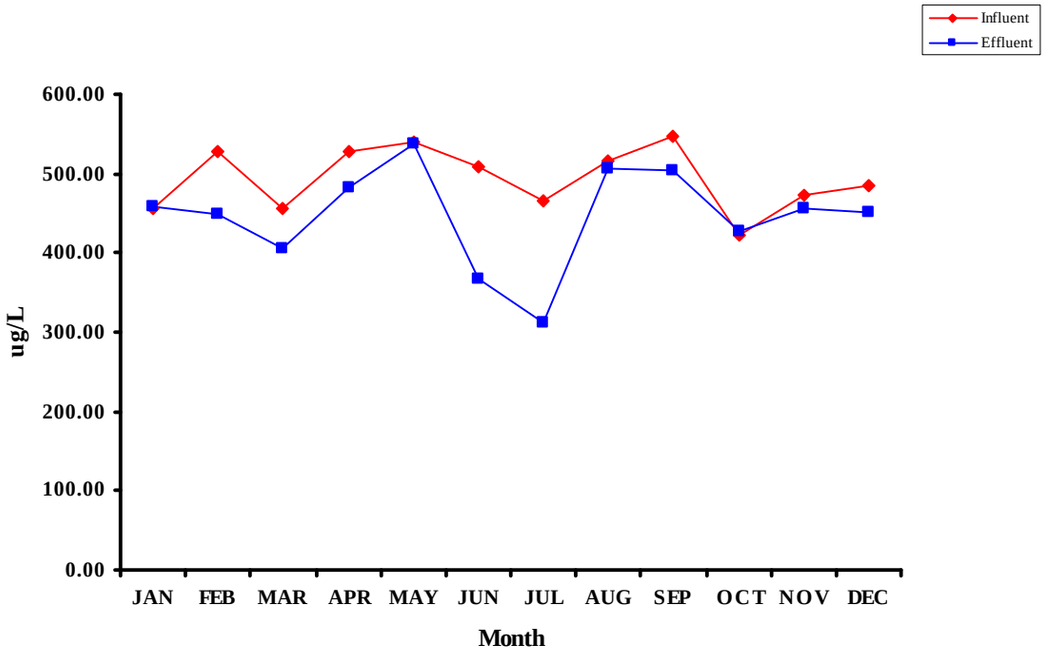
Aluminum
2002 Monthly Averages



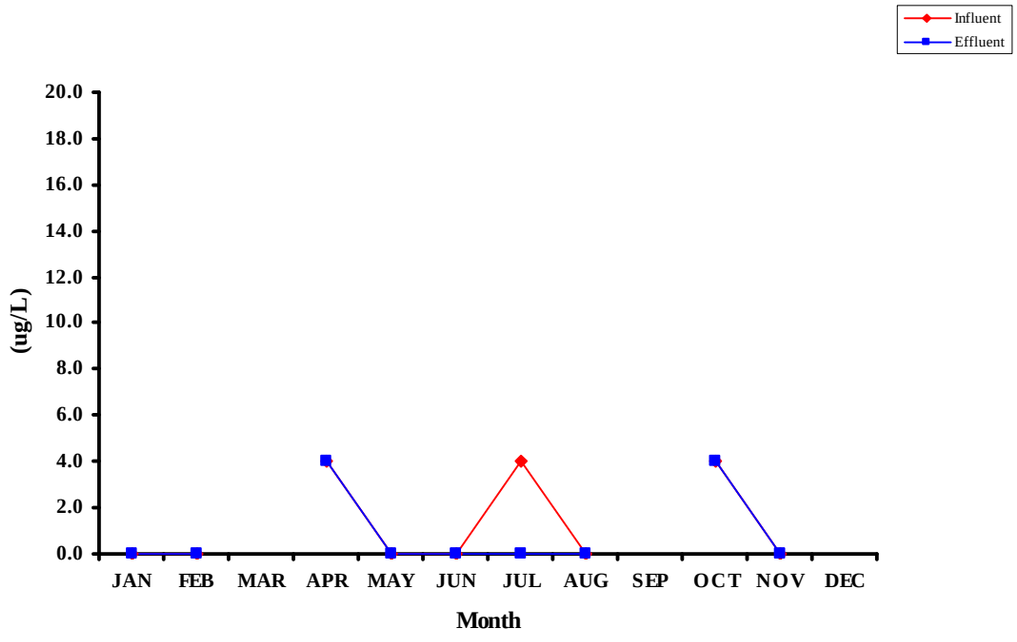
Barium
2002 Monthly Averages



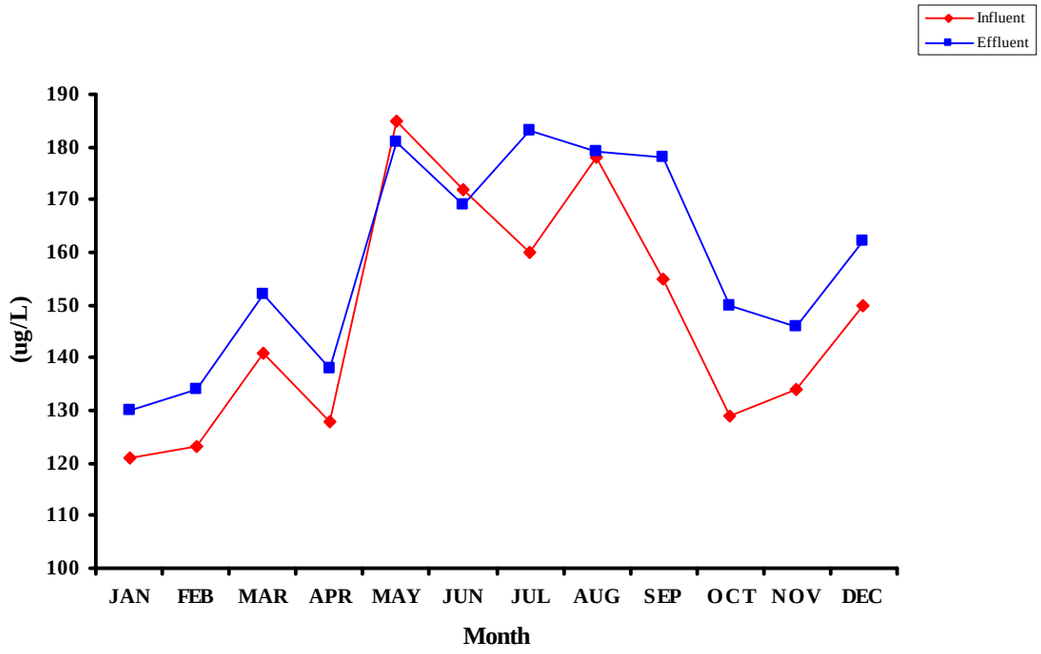
Boron
2002 Monthly Averages



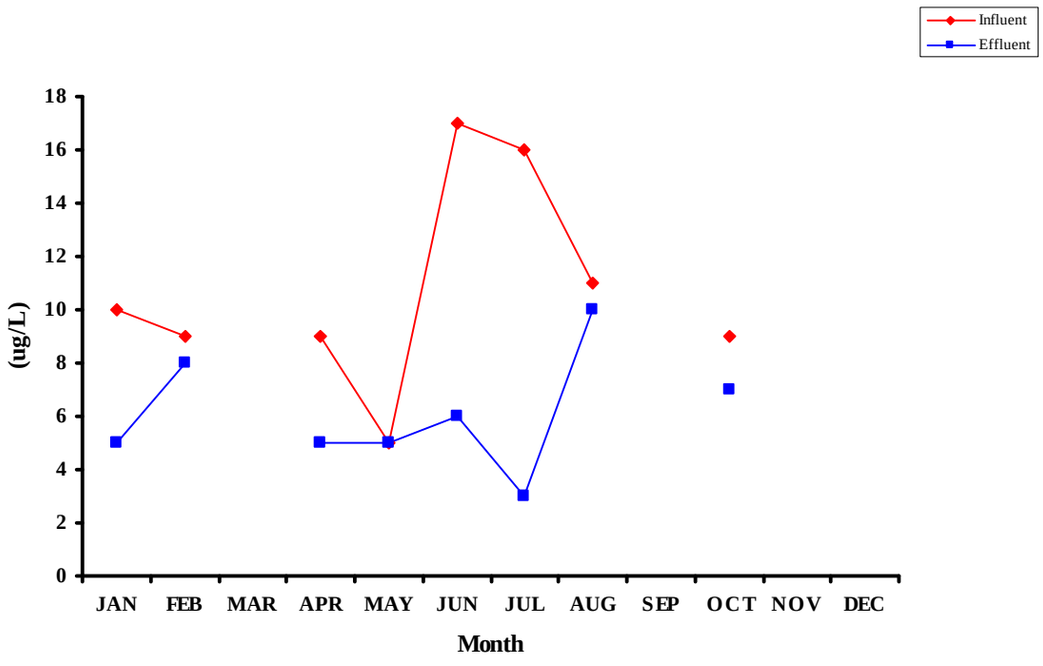
Colbalt
2002 Monthly Averages



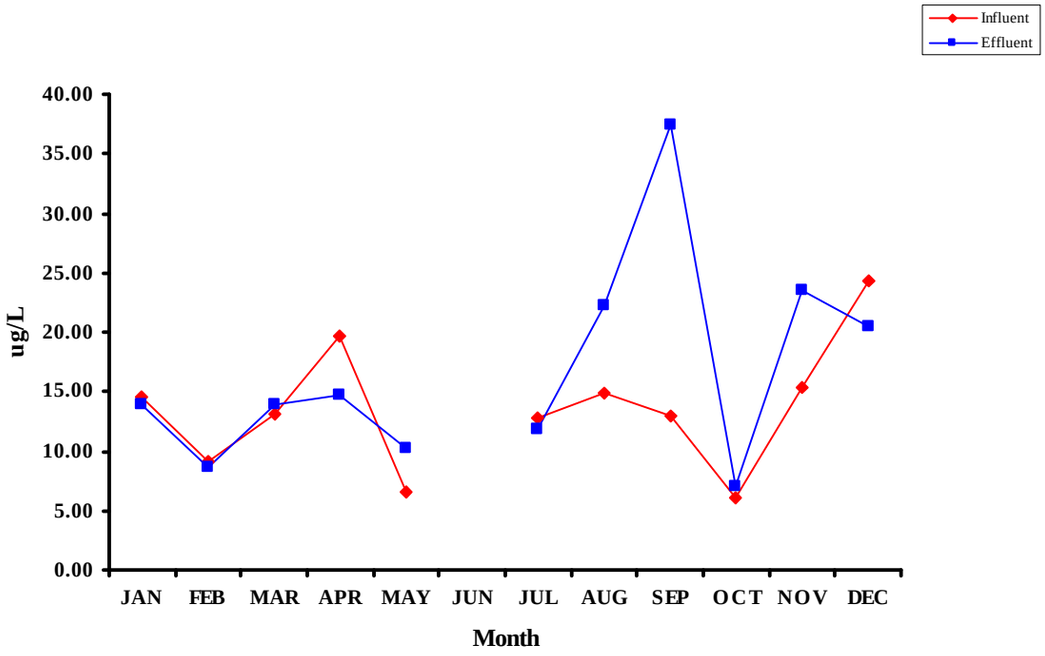
Manganese
2002 Monthly Averages



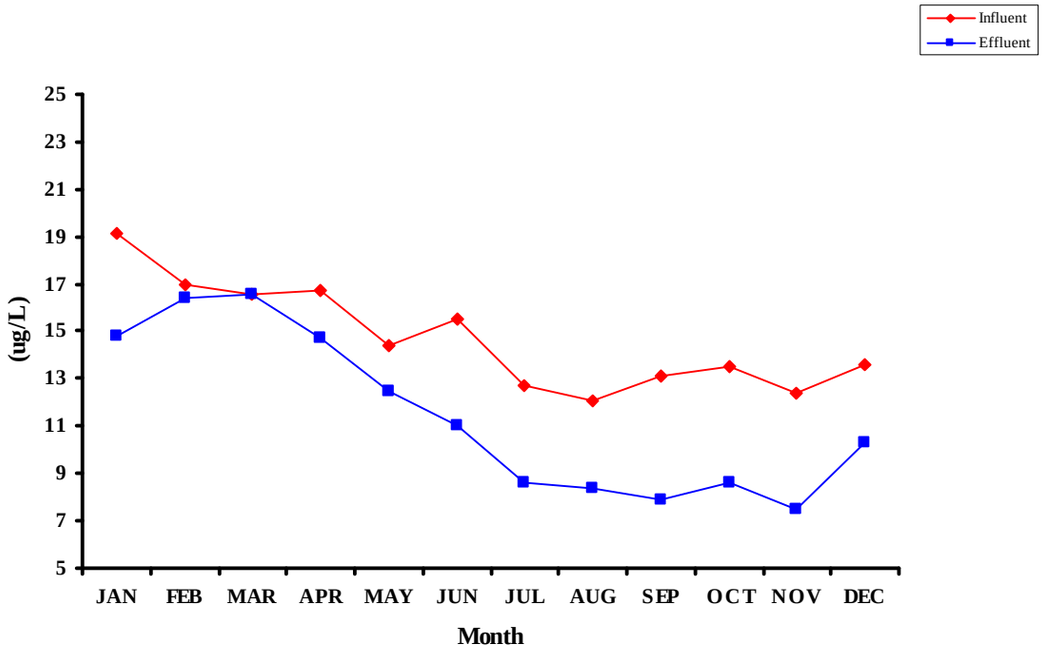
Molybdeum
2002 Monthly Averages



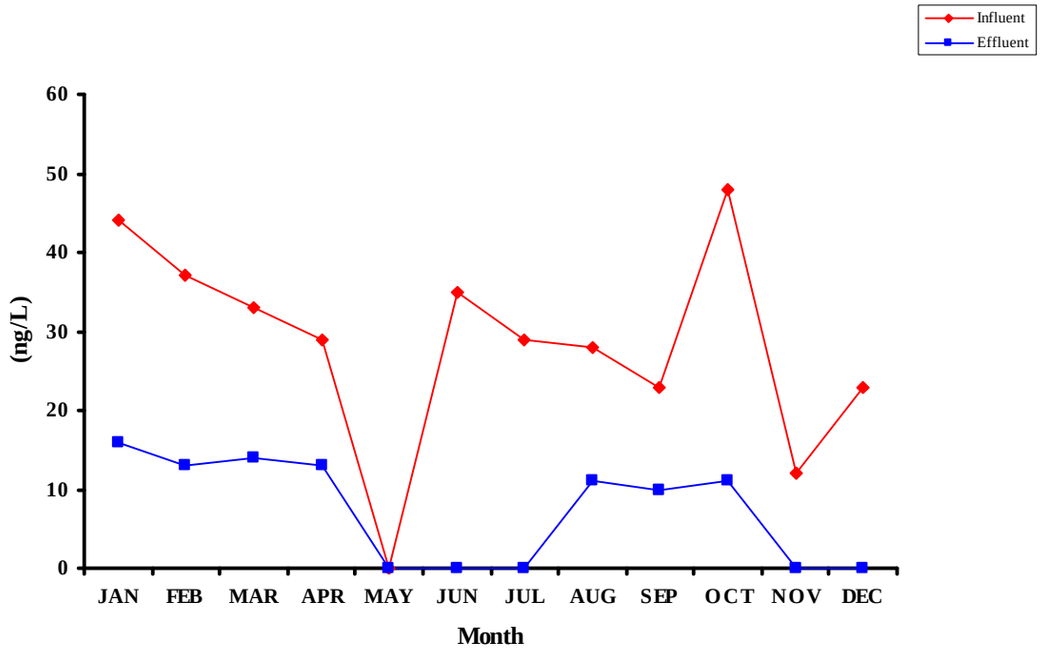
Purgeables
2002 Monthly Averages



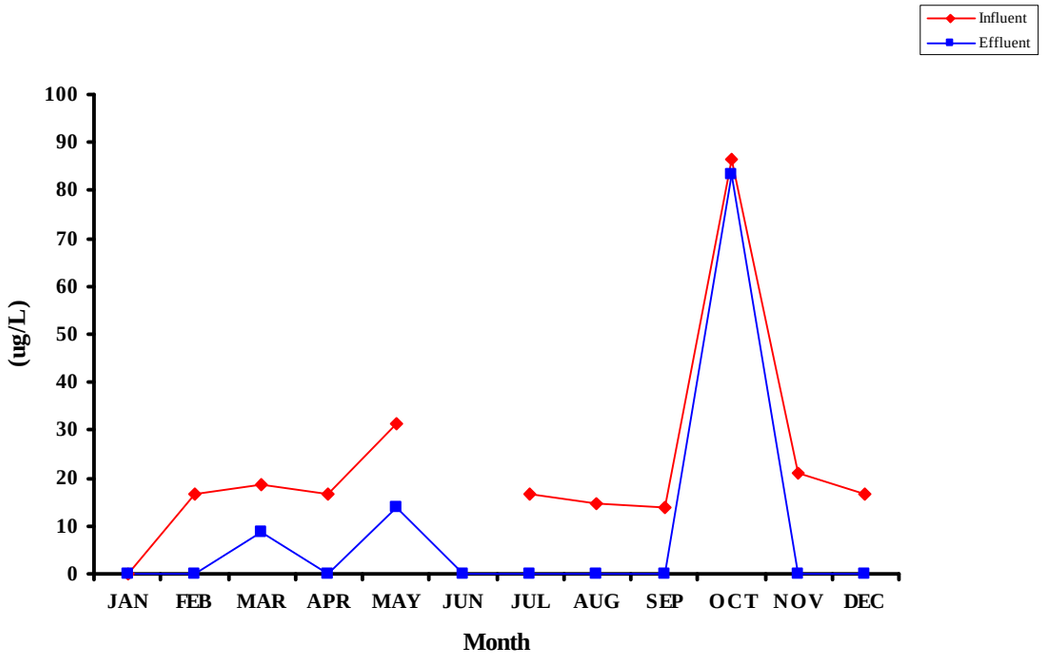
Phenols
2002 Monthly Averages



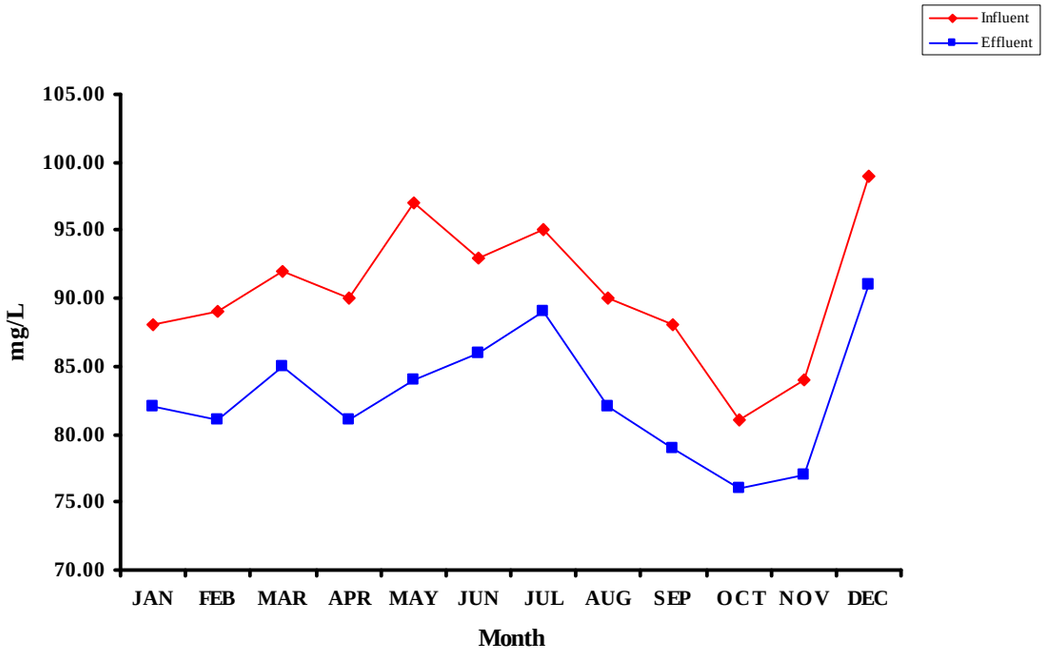
Total Chlorinated Hydrocarbons
2002 Monthly Averages



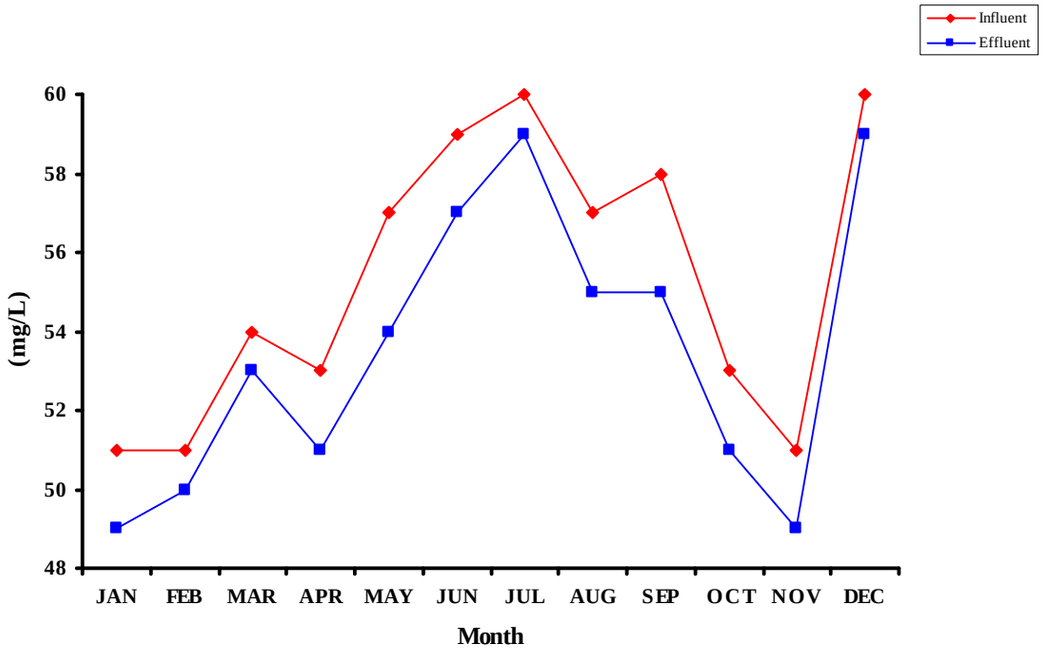
Base Neutrals
2002 Monthly Averages



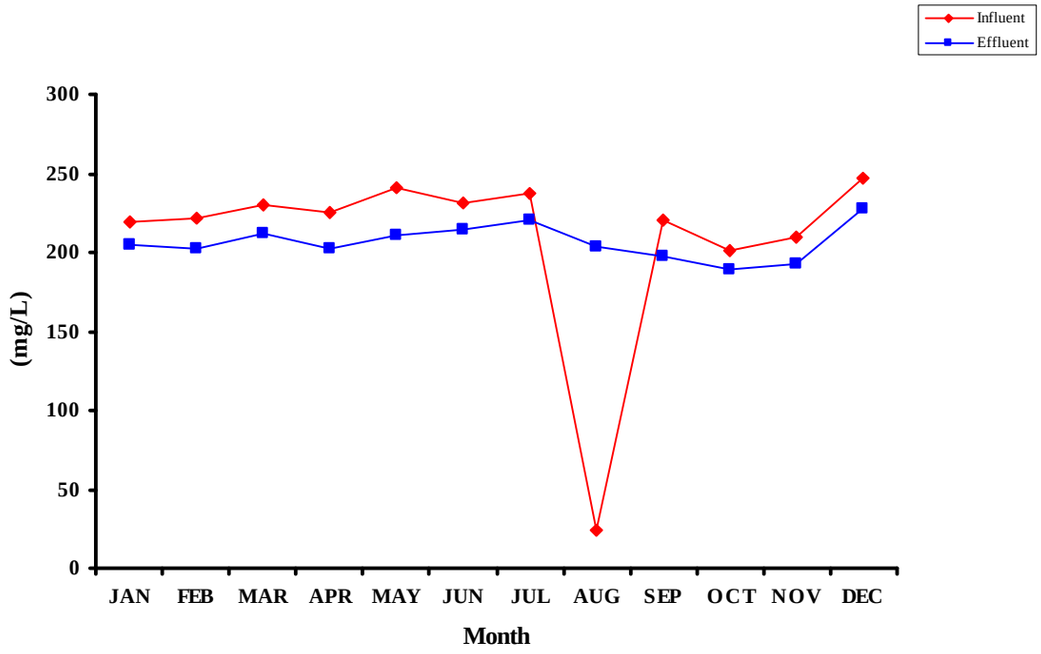
Calcium
2002 Monthly Averages



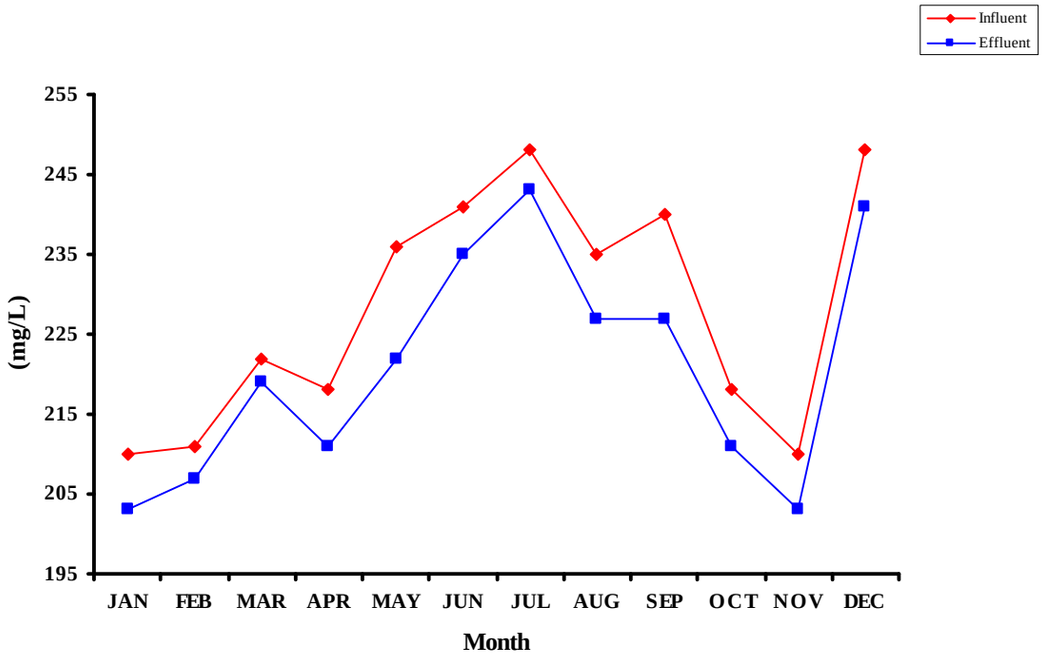
Magnesium
2002 Monthly Averages



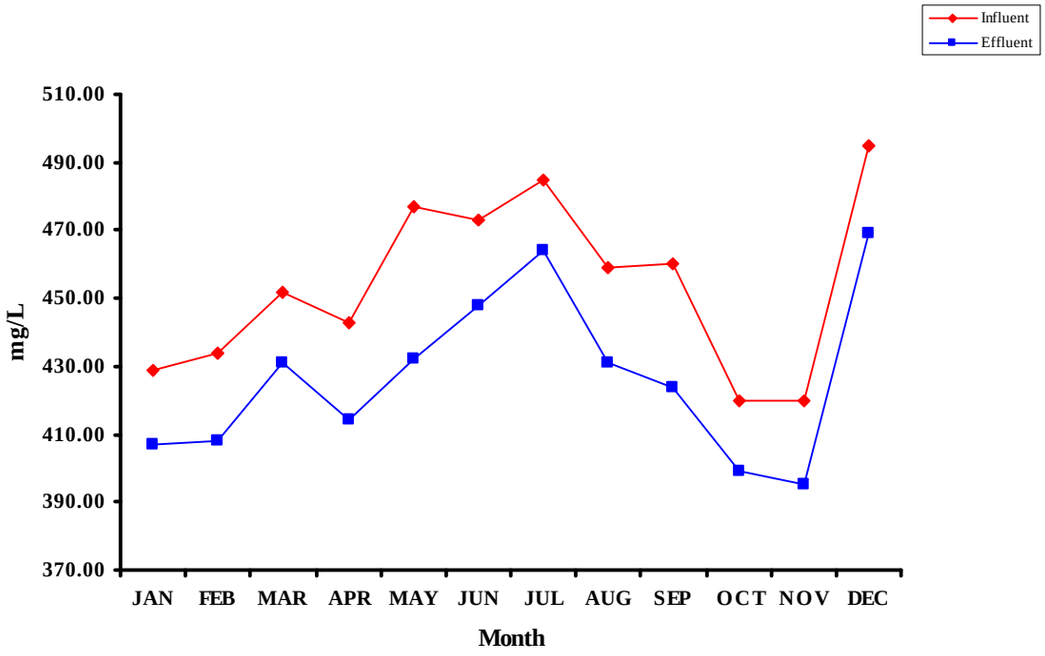
Calcium Hardness
2002 Monthly Averages



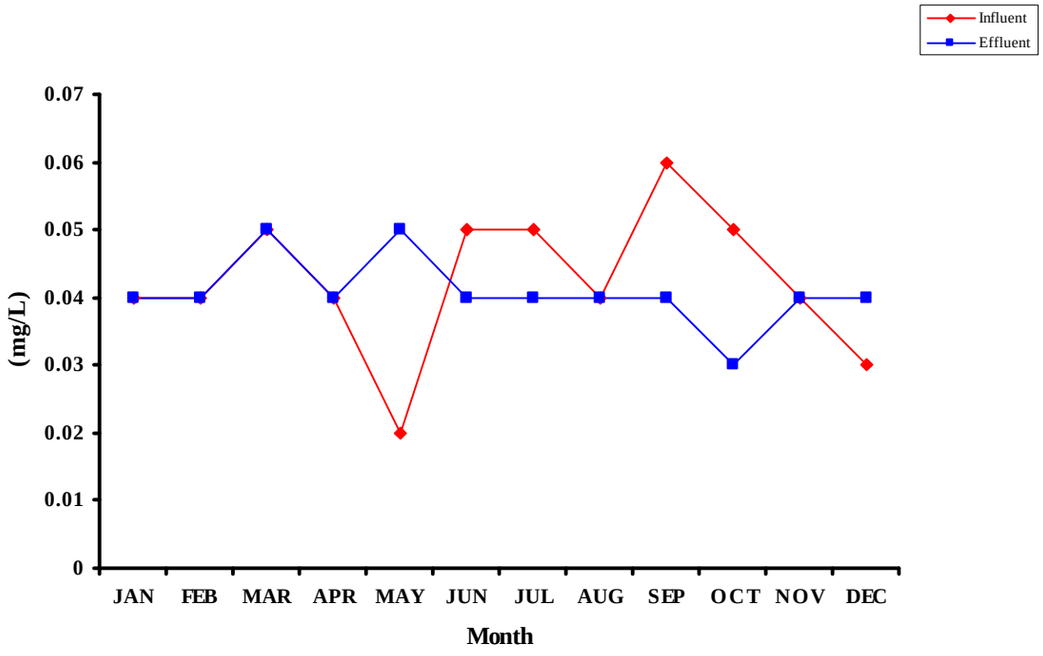
Magnesium Hardness
2002 Monthly Averages



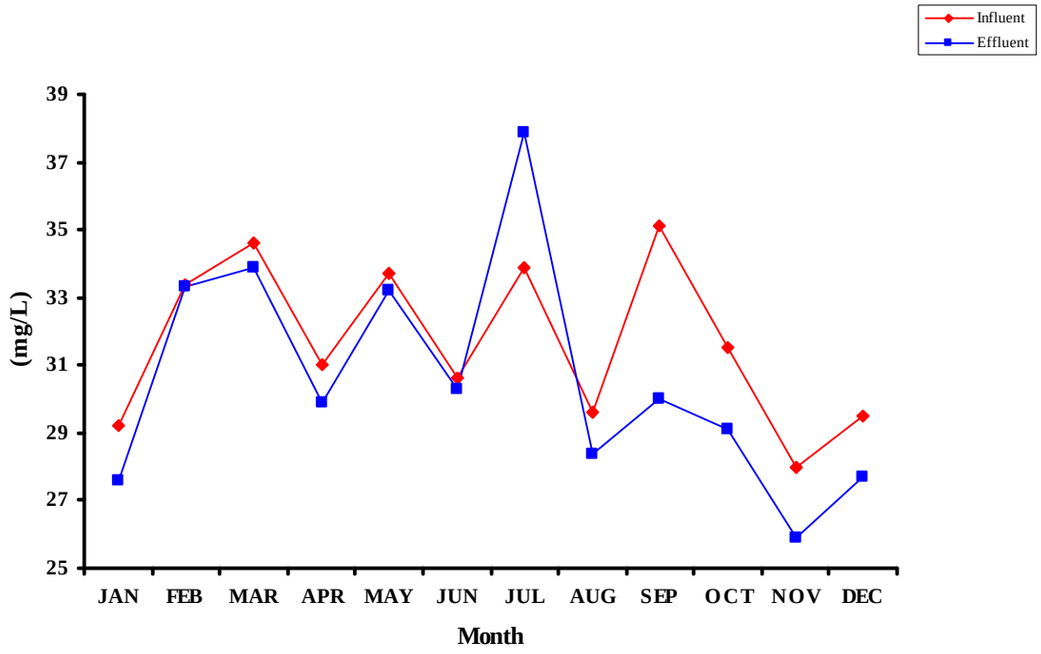
Total Hardness
2002 Monthly Averages



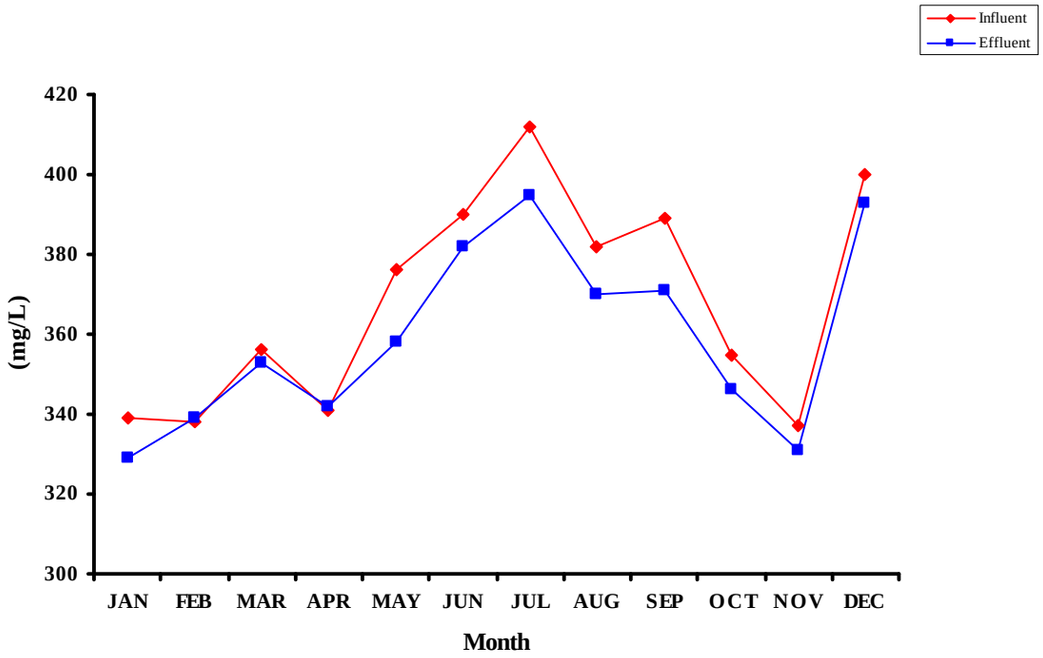
Lithium
2002 Monthly Averages



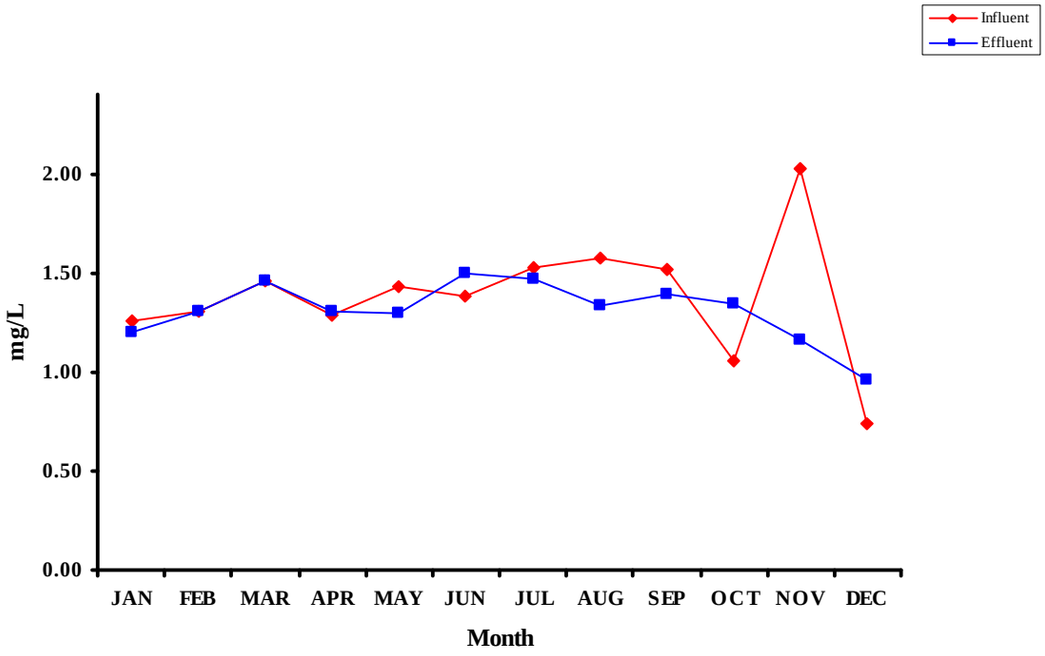
Potassium
2002 Monthly Averages



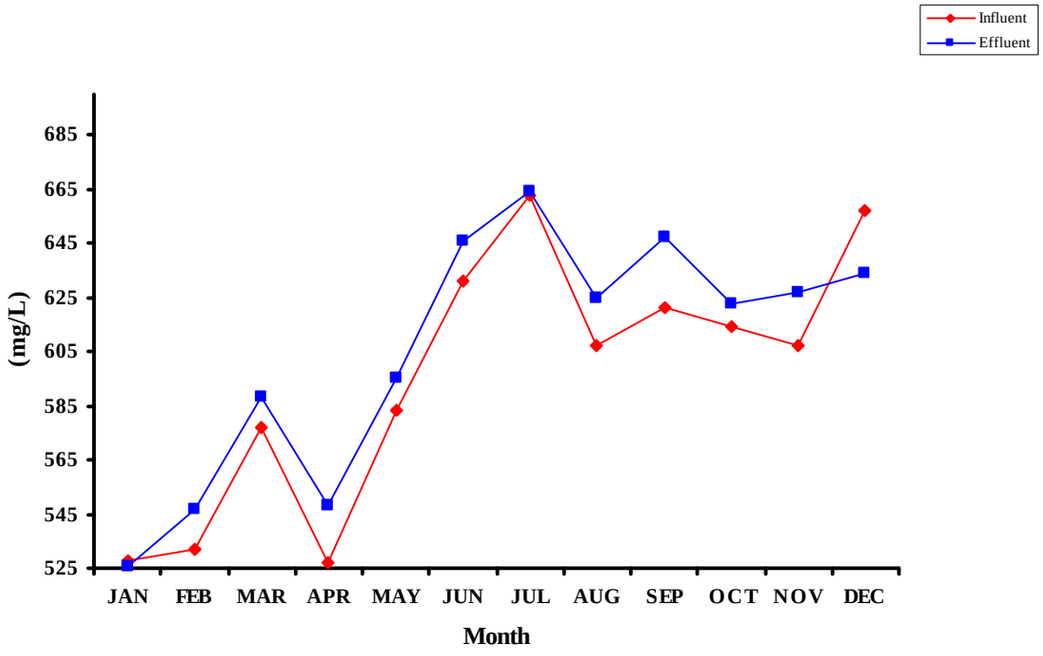
Sodium
2002 Monthly Averages



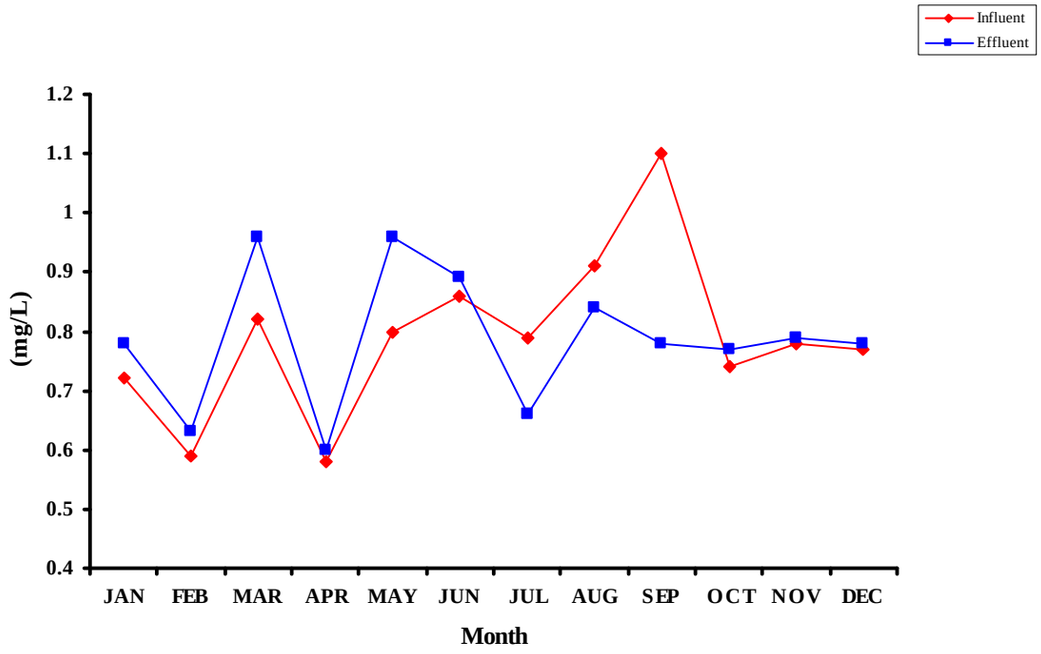
Bromide
2002 Monthly Averages



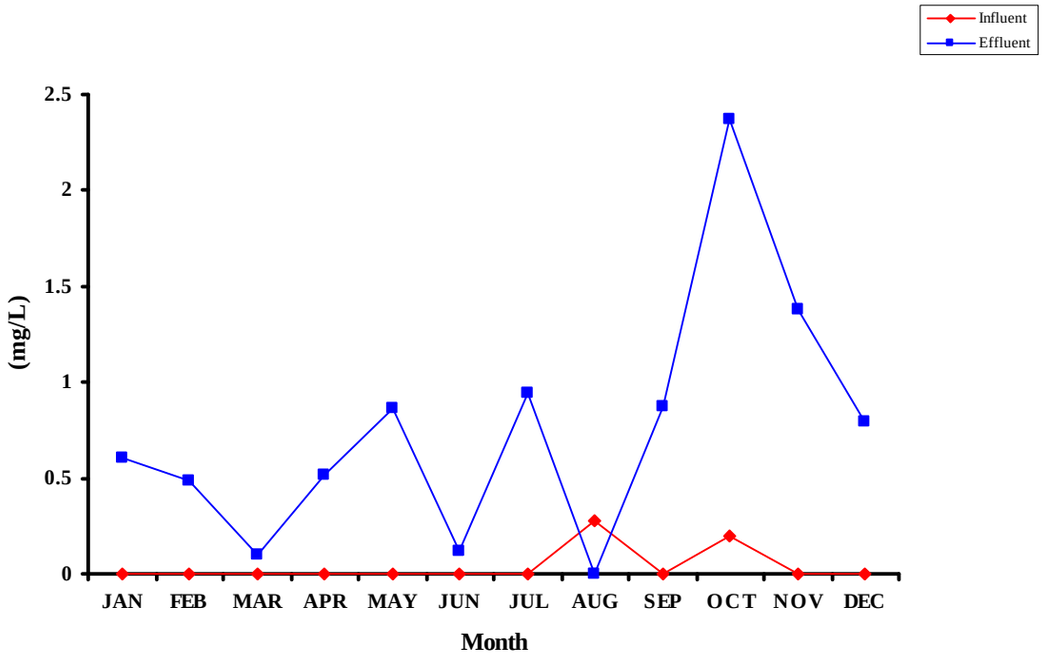
Chloride
2002 Monthly Averages



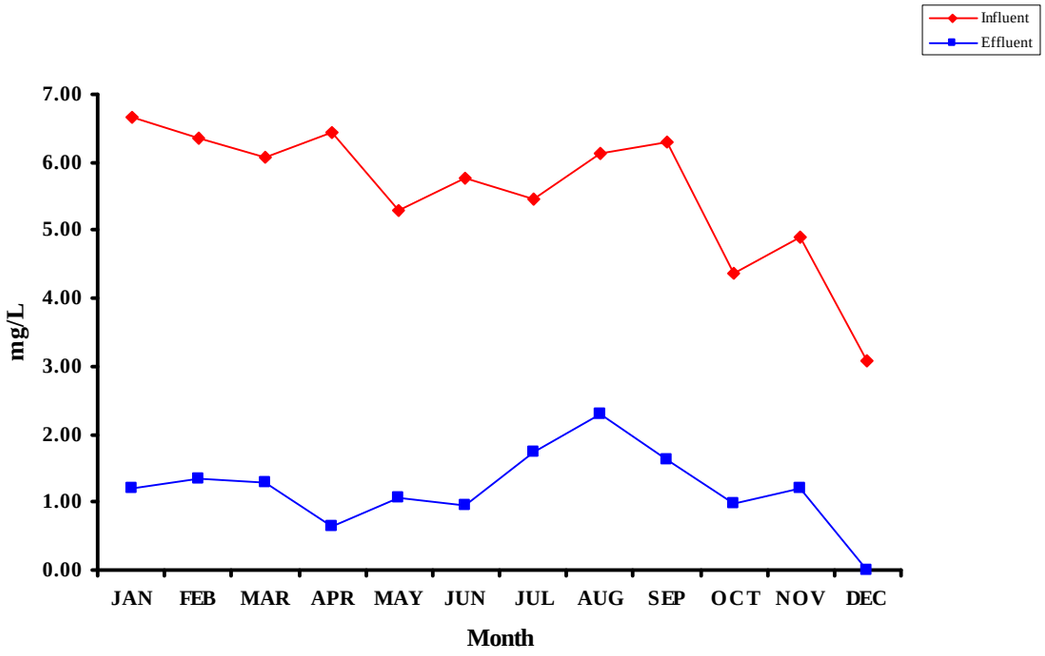
Fluoride
2002 Monthly Averages



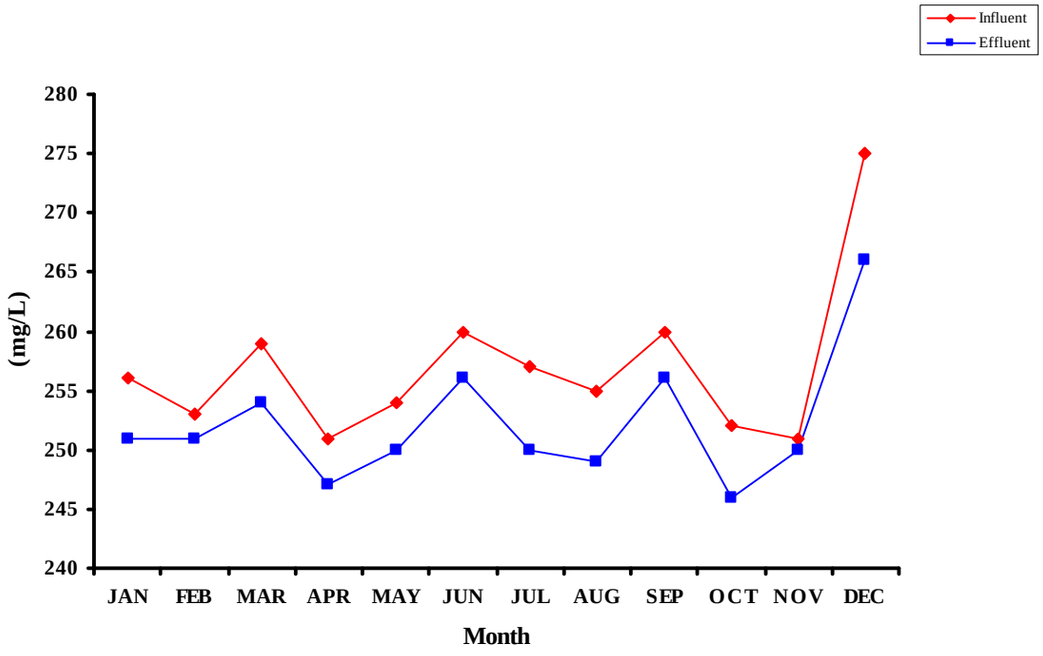
Nitrate
2002 Monthly Averages



O-Phosphate
2002 Monthly Averages



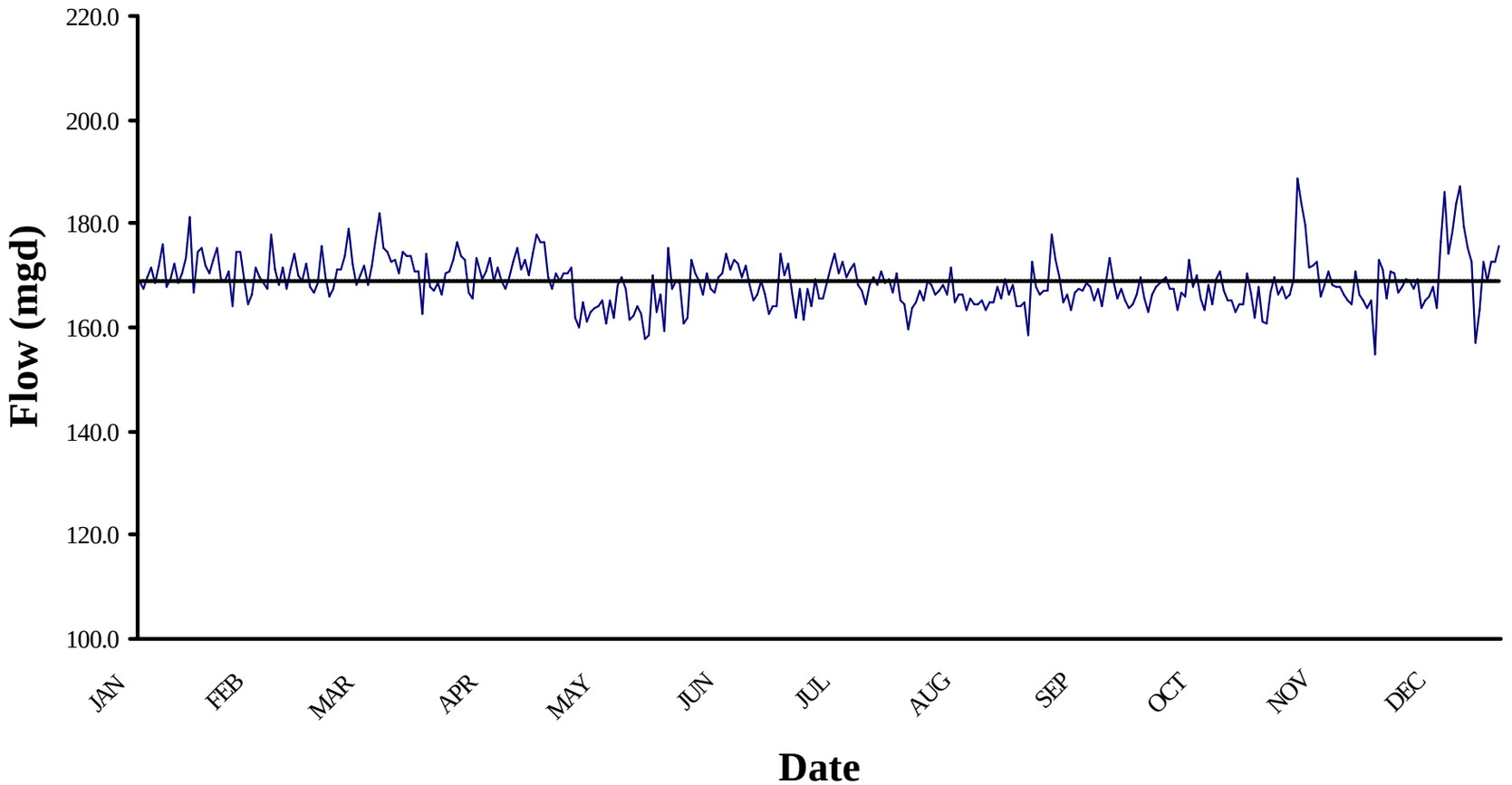
Chloride
2002 Monthly Averages



C. Daily Values of Selected Parameters.

Daily values of selected parameters (e.g. TSS, Flow, TSS Removals, etc.) are tabulated and presented graphically; statistical summary information is provided.

Point Loma Wastewater Treatment Plant
2002 Daily Flows (mgd)

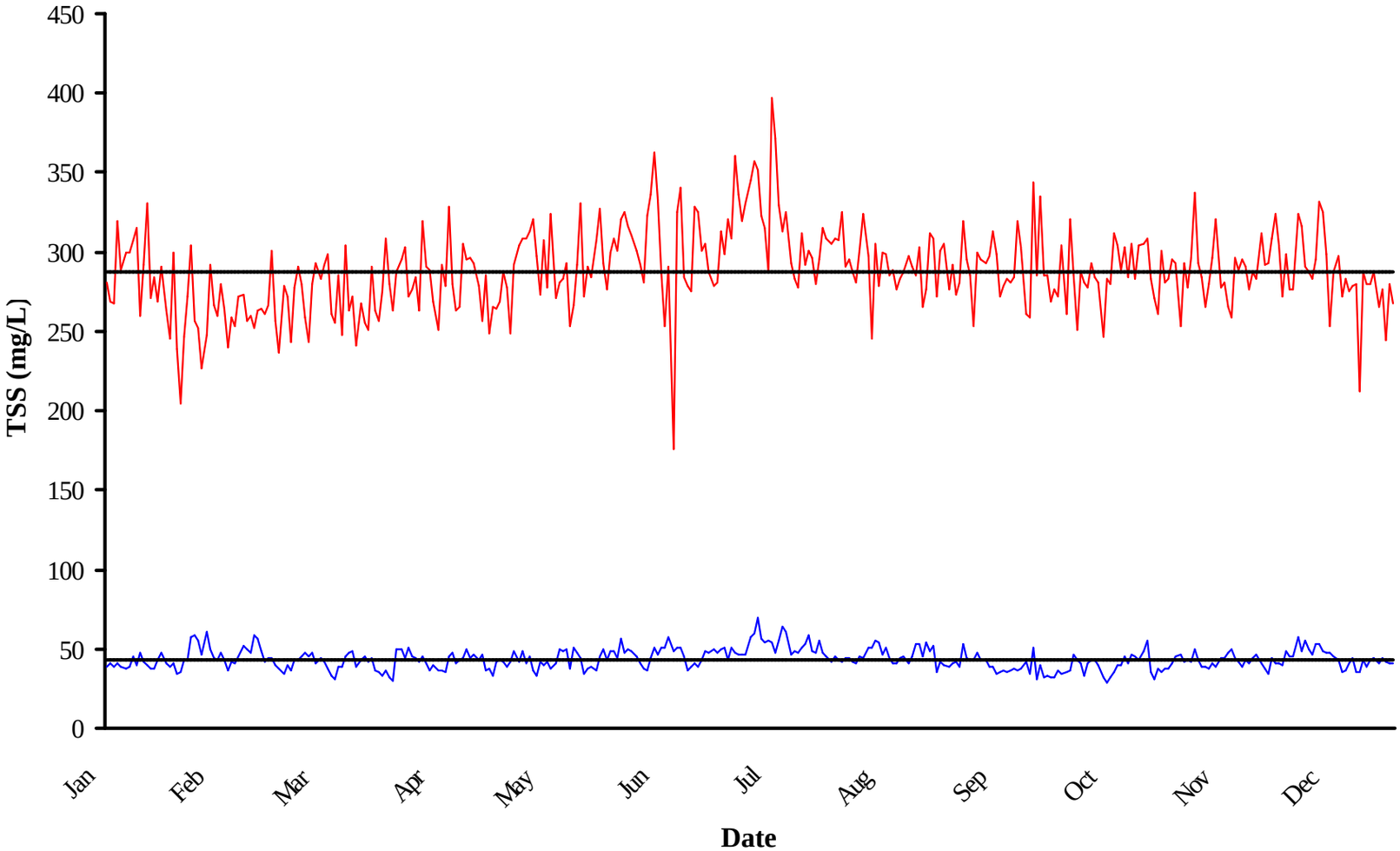


Point Loma Wastewater Treatment Plant

2002 Flows (mgd)

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	160.1	171.8	166.6	167.0	167.4	167.6	172.4	159.5	158.5	165.6	160.8	171.3	
2	166.7	170.4	168.7	168.5	170.3	169.1	166.7	163.7	172.6	162.8	166.8	165.5	
3	170.2	173.1	175.5	166.4	169.0	168.4	161.9	164.9	167.8	166.3	169.6	170.7	
4	177.8	175.4	169.8	170.5	170.5	160.8	167.6	167.2	166.5	167.9	166.5	170.5	
5	169.4	169.4	166.1	170.7	170.4	161.9	161.6	165.4	167.2	168.8	168.0	166.8	
6	171.5	169.0	167.5	172.9	171.5	172.9	167.6	169.0	167.2	169.6	165.7	167.8	
7	172.9	170.7	171.3	176.5	161.8	170.3	164.2	168.2	178.1	167.5	166.5	169.3	
8	168.2	164.1	171.1	173.7	160.1	168.8	169.2	166.4	173.2	167.4	169.4	168.9	
9	168.7	174.7	173.7	173.0	164.9	166.5	165.5	167.0	169.6	163.4	188.6	167.4	
10	172.4	174.4	179.1	166.8	161.1	170.4	165.7	168.1	164.9	166.8	183.9	169.3	
11	167.0	169.3	172.5	165.7	163.2	167.4	168.8	166.3	166.3	166.1	179.9	163.6	
12	172.9	164.6	168.1	173.3	163.6	166.7	171.4	171.5	163.3	173.0	171.6	165.1	
13	171.1	166.3	170.2	169.4	164.0	169.7	174.2	164.9	166.7	167.7	171.8	166.1	
14	176.6	171.6	172.0	170.7	165.3	170.3	170.5	166.3	167.6	170.2	172.8	167.8	
15	168.9	169.7	168.3	173.4	160.9	174.1	172.6	166.4	166.9	165.7	166.0	163.7	
16	167.6	168.5	172.0	168.9	165.4	171.2	169.7	163.3	168.5	163.4	168.1	176.3	
17	169.7	167.6	177.1	171.4	161.8	172.9	171.3	165.6	167.8	168.3	170.7	186.2	
18	171.5	177.8	181.9	169.1	168.2	172.4	172.4	164.4	165.3	164.4	168.3	174.1	
19	168.5	171.0	175.3	167.4	169.6	169.8	168.1	164.5	167.4	169.2	167.8	178.4	
20	171.9	168.4	174.5	169.7	167.3	172.0	167.2	165.2	164.0	170.9	167.7	183.9	
21	176.2	171.5	172.8	172.8	161.5	168.2	164.6	163.2	168.6	167.2	166.2	187.2	
22	168.0	167.5	173.2	175.4	162.3	165.1	168.2	164.7	173.3	165.3	165.1	179.4	
23	169.3	171.3	170.3	171.2	164.3	166.4	169.7	164.8	168.8	165.2	164.6	175.2	
24	172.2	174.0	174.7	173.1	162.8	169.1	168.1	167.8	165.5	163.0	170.8	172.5	
25	168.6	170.1	173.8	169.9	157.7	166.4	170.7	165.4	167.4	164.6	166.4	157.0	
26	170.6	168.8	173.7	174.3	158.5	162.7	168.6	169.3	165.3	164.7	165.1	163.4	
27	173.4	172.2	170.8	177.9	170.0	164.2	169.4	166.3	163.6	170.6	163.6	172.5	
28	181.4	167.7	170.7	176.2	162.9	164.2	166.8	168.2	164.5	166.9	165.0	169.0	
29	166.9		162.5	176.5	166.3	174.3	170.5	164.2	166.4	161.8	154.9	172.5	
30	174.7		174.1	169.7	159.4	170.2	165.4	164.2	169.6	167.9	173.0	172.7	Annual
31	175.2		167.8		175.4		164.4	165.0		161.2		175.5	Summary
Average	171.0	170.4	171.8	171.4	165.1	168.5	168.2	165.8	167.4	166.6	168.8	171.3	168.8
Minimum	160.1	164.1	162.5	165.7	157.7	160.8	161.6	159.5	158.5	161.2	154.9	157.0	154.9
Maximum	181.4	177.8	181.9	177.9	175.4	174.3	174.2	171.5	178.1	173.0	188.6	187.2	188.6
Total	5300.0	4770.5	5325.7	5142.0	5117.0	5053.9	5215.0	5140.5	5022.4	5163.3	5065.0	5309.4	61624.6

Point Loma Wastewater Treatment Plant
2002 Total Suspended Solids

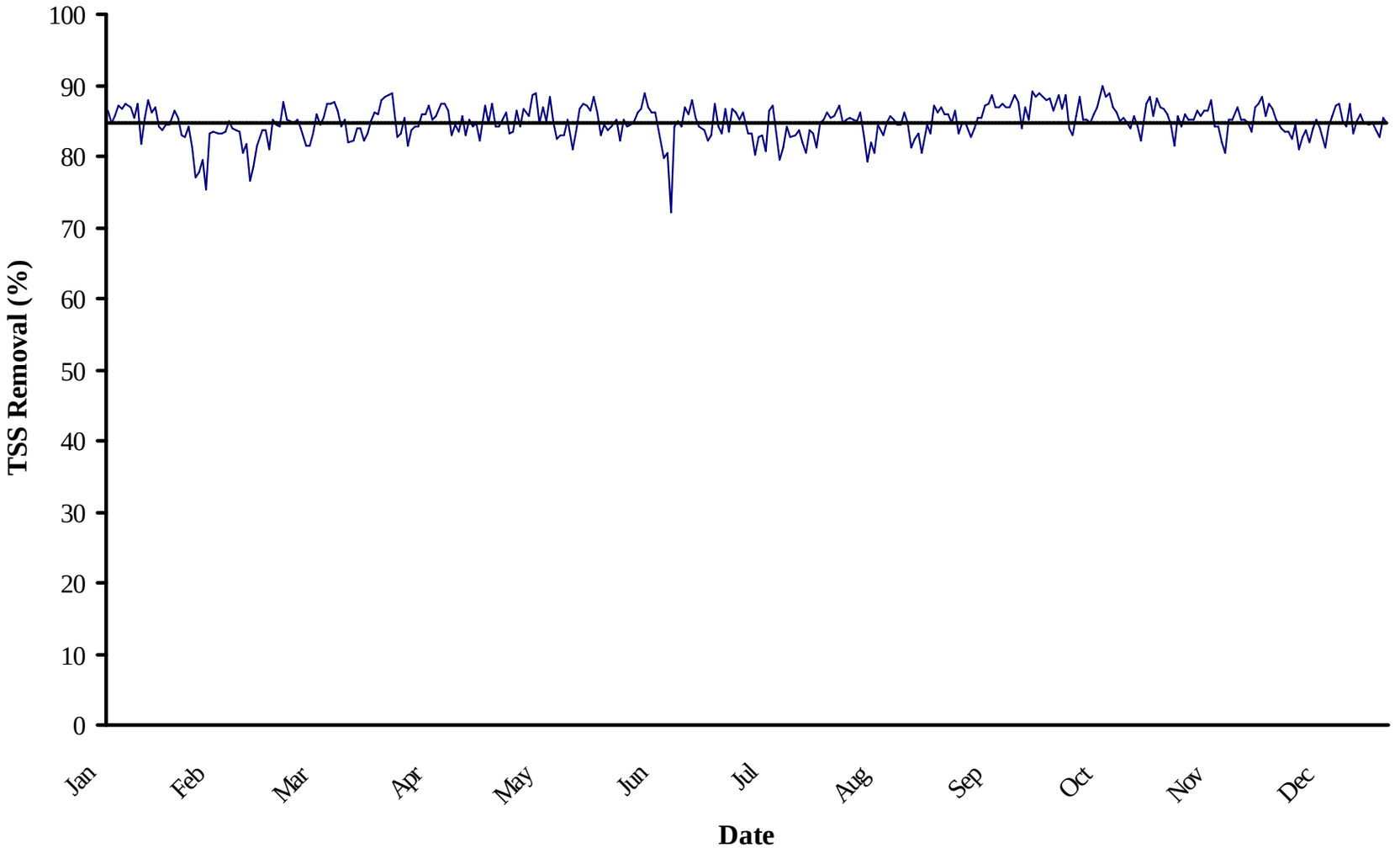


Point Loma Wastewater Treatment Plant

2002 Total Suspended Solids (mg/L)

	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec	
Day	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	260.0	39.8	245.0	38.2	301.0	44.4	309.0	36.2	264.0	41.5	300.0	48.5	313.0	49.3	309.0	45.1	276.0	38.7	272.0	36.7	295.0	41.3	272.0	40.2
2	271.0	35.6	300.0	40.5	257.0	40.2	280.0	31.6	269.0	42.9	309.0	48.7	299.0	50.4	307.0	43.6	292.0	41.3	304.0	34.4	293.0	45.6	299.0	48.2
3	272.0	39.6	239.0	34.7	237.0	37.4	263.0	29.3	287.0	42.4	301.0	44.7	321.0	42.9	325.0	41.8	273.0	41.8	261.0	34.9	253.0	46.9	276.0	45.8
4	292.0	42.7	205.0	34.9	279.0	34.2	287.0	49.3	277.0	38.4	321.0	56.9	309.0	50.9	291.0	44.6	281.0	38.4	321.0	36.7	293.0	42.2	276.0	45.5
5	284.0	45.4	247.0	42.7	272.0	40.2	295.0	49.6	249.0	41.6	325.0	48.0	360.0	48.0	295.0	43.8	320.0	53.6	285.0	46.0	277.0	43.6	324.0	57.1
6	276.0	43.1	272.0	42.7	243.0	36.7	303.0	44.2	292.0	48.2	316.0	50.0	336.0	46.7	287.0	41.8	295.0	44.7	251.0	42.9	296.0	41.5	316.0	48.9
7	253.0	35.6	304.0	57.3	277.0	42.7	272.0	50.7	304.0	41.8	311.0	48.4	319.0	46.9	281.0	41.3	285.0	43.5	288.0	41.1	337.0	50.2	291.0	55.6
8	287.0	41.6	257.0	58.9	291.0	43.1	276.0	45.1	309.0	48.7	301.0	45.1	331.0	46.0	301.0	45.6	253.0	43.5	281.0	32.7	293.0	43.1	287.0	49.3
9	291.0	42.7	252.0	55.8	280.0	44.9	284.0	44.7	308.0	41.1	292.0	40.4	345.0	58.0	324.0	44.7	300.0	48.0	277.0	40.7	284.0	38.2	283.0	46.0
10	285.0	32.2	227.0	46.2	259.0	47.8	263.0	41.8	313.0	44.9	281.0	37.5	357.0	60.2	297.0	50.9	295.0	42.7	293.0	43.5	265.0	38.2	295.0	53.1
11	272.0	40.7	248.0	60.9	243.0	44.9	319.0	44.9	321.0	36.7	323.0	36.2	352.0	69.3	245.0	50.9	293.0	42.9	284.0	43.5	280.0	37.8	332.0	53.1
12	269.0	41.4	292.0	49.3	280.0	47.3	291.0	40.7	297.0	32.9	336.0	44.2	323.0	56.2	305.0	55.1	297.0	38.4	281.0	39.3	296.0	40.7	325.0	48.2
13	240.0	43.5	267.0	44.2	293.0	41.1	289.0	36.9	273.0	42.0	363.0	50.5	315.0	53.8	279.0	54.2	313.0	39.1	247.0	32.5	321.0	39.1	299.0	47.8
14	261.0	37.1	260.0	43.6	283.0	43.8	269.0	40.0	307.0	40.0	333.0	46.2	288.0	55.3	300.0	46.7	299.0	33.8	283.0	28.4	277.0	43.8	253.0	47.5
15	281.0	38.6	280.0	47.3	292.0	42.4	251.0	36.2	277.0	41.5	287.0	51.1	397.0	54.4	299.0	50.9	272.0	35.3	280.0	32.2	281.0	44.4	287.0	45.1
16	269.0	40.9	264.0	43.6	299.0	37.8	292.0	36.5	324.0	38.0	253.0	51.3	372.0	47.6	285.0	43.8	279.0	36.4	312.0	35.1	265.0	48.0	297.0	42.7
17	268.0	38.2	240.0	36.0	261.0	32.9	279.0	35.1	271.0	41.1	291.0	57.1	329.0	55.1	289.0	40.9	283.0	35.3	304.0	40.0	259.0	50.2	272.0	35.1
18	320.0	41.1	259.0	41.6	255.0	31.3	328.0	44.9	281.0	49.3	176.0	48.9	313.0	63.8	276.0	40.9	281.0	36.4	289.0	40.2	296.0	44.0	283.0	36.0
19	289.0	38.4	253.0	41.1	285.0	38.7	280.0	47.8	283.0	48.5	325.0	50.9	325.0	60.7	283.0	44.2	284.0	37.1	303.0	45.4	289.0	42.4	275.0	41.3
20	300.0	37.8	272.0	45.1	248.0	38.9	263.0	41.1	293.0	50.2	340.0	51.3	293.0	46.4	288.0	44.9	320.0	36.2	284.0	41.1	295.0	38.9	279.0	43.8
21	300.0	38.9	273.0	52.0	304.0	45.1	265.0	43.6	253.0	37.1	284.0	44.9	283.0	48.9	297.0	41.3	303.0	37.3	305.0	46.6	291.0	43.1	280.0	35.3
22	307.0	44.9	257.0	49.8	263.0	47.5	305.0	43.8	267.0	50.7	279.0	36.9	277.0	47.5	291.0	44.9	261.0	41.8	283.0	45.6	276.0	40.7	212.0	35.3
23	315.0	40.0	260.0	47.3	272.0	48.2	295.0	50.2	292.0	48.0	275.0	38.4	312.0	51.1	285.0	53.6	259.0	33.8	304.0	43.6	287.0	44.0	288.0	43.6
24	260.0	47.3	252.0	59.1	241.0	38.5	296.0	44.0	331.0	44.0	328.0	41.3	292.0	52.9	303.0	52.9	344.0	50.5	305.0	48.2	283.0	46.7	280.0	39.1
25	292.0	42.4	263.0	56.4	268.0	42.9	293.0	46.2	272.0	34.4	325.0	39.1	301.0	59.1	265.0	44.9	285.0	31.1	308.0	55.1	312.0	40.9	280.0	43.1
26	331.0	39.8	264.0	49.1	255.0	45.1	279.0	43.1	291.0	37.3	301.0	43.6	296.0	48.2	276.0	54.0	335.0	39.3	283.0	35.8	292.0	37.1	288.0	44.5
27	271.0	37.8	261.0	42.4	251.0	42.2	257.0	46.0	284.0	38.7	305.0	48.5	280.0	47.3	312.0	48.4	285.0	31.8	271.0	31.3	293.0	34.2	265.0	40.5
28	284.0	37.5	267.0	43.8	291.0	43.8	285.0	36.5	307.0	36.0	288.0	47.1	295.0	55.3	309.0	52.0	285.0	33.1	261.0	37.4	309.0	43.8	276.0	44.7
29	269.0	42.7			263.0	36.5	249.0	38.0	327.0	45.3	279.0	50.0	315.0	47.8	272.0	35.1	269.0	32.2	301.0	35.8	324.0	41.3	244.0	42.2
30	291.0	47.3			256.0	35.8	265.0	33.4	293.0	50.2	281.0	48.0	309.0	45.6	301.0	41.6	276.0	32.5	281.0	37.1	304.0	40.4	280.0	40.9
31	263.0	40.7			275.0	32.9			276.0	43.1			305.0	42.0	305.0	40.2			283.0	37.5			268.0	41.1
Avg	281.4	40.5	260.0	46.6	270.1	40.9	282.7	41.7	290.1	42.5	301.0	46.5	318.1	51.9	293.0	46.0	289.8	39.0	286.6	39.4	290.5	42.4	283.3	44.5
Min	240.0	32.2	205.0	34.7	237.0	31.3	249.0	29.3	249.0	32.9	176.0	36.2	277.0	42.0	245.0	35.1	253.0	31.1	247.0	28.4	253.0	34.2	212.0	35.1
Max	331.0	47.3	304.0	60.9	304.0	48.2	328.0	50.7	331.0	50.7	363.0	57.1	397.0	69.3	325.0	55.1	344.0	53.6	321.0	55.1	337.0	50.2	332.0	57.1

Point Loma Wastewater Treatment Plant
2002 TSS Removal (%) at Point Loma

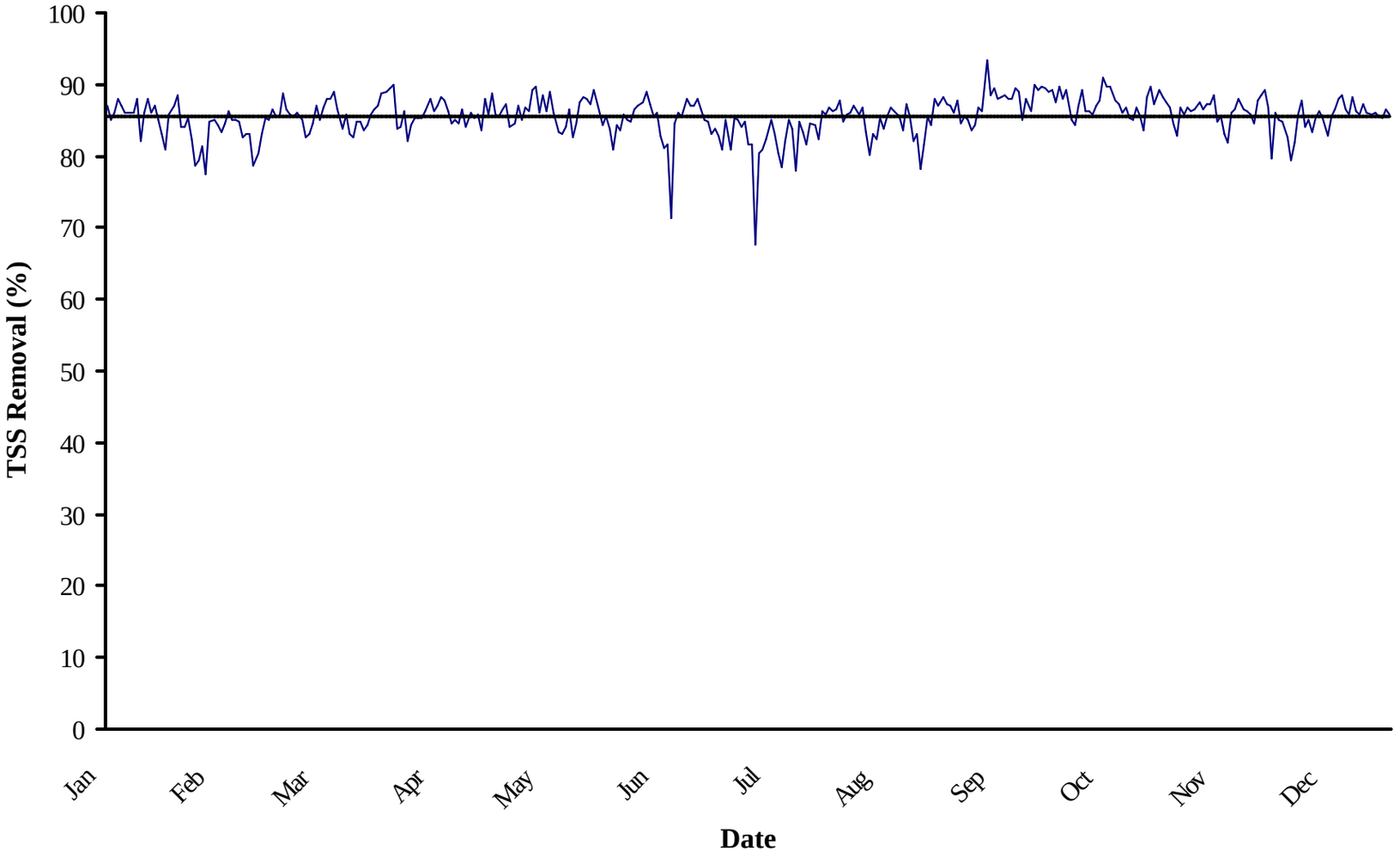


Point Loma Wastewater Treatment Plant

2002 Total Suspended Solids Removals (%) at Point Loma

Day	Jan % Rem	Feb % Rem	Mar % Rem	Apr % Rem	May % Rem	Jun % Rem	Jul % Rem	Aug % Rem	Sep % Rem	Oct % Rem	Nov % Rem	Dec % Rem
1	84.7	84.4	85.2	88.3	84.3	83.8	84.2	85.4	86.0	86.5	86.0	85.2
2	86.9	86.5	84.4	88.7	84.1	84.2	83.1	85.8	85.9	88.7	84.4	83.9
3	85.4	85.5	84.2	88.9	85.2	85.1	86.6	87.1	84.7	86.6	81.5	83.4
4	85.4	83.0	87.7	82.8	86.1	82.3	83.5	84.7	86.3	88.6	85.6	83.5
5	84.0	82.7	85.2	83.2	83.3	85.2	86.7	85.2	83.3	83.9	84.3	82.4
6	84.4	84.3	84.9	85.4	83.5	84.2	86.1	85.4	84.8	82.9	86.0	84.5
7	85.9	81.2	84.6	81.4	86.3	84.4	85.3	85.3	84.7	85.7	85.1	80.9
8	85.5	77.1	85.2	83.7	84.2	85.0	86.1	84.9	82.8	88.4	85.3	82.8
9	85.3	77.9	84.0	84.3	86.7	86.2	83.2	86.2	84.0	85.3	86.5	83.7
10	88.7	79.6	81.5	84.1	85.7	86.7	83.1	82.9	85.5	85.2	85.6	82.0
11	85.0	75.4	81.5	85.9	88.6	88.8	80.3	79.2	85.4	84.7	86.5	84.0
12	84.6	83.1	83.1	86.0	88.9	86.8	82.6	81.9	87.1	86.0	86.3	85.2
13	81.9	83.4	86.0	87.2	84.6	86.1	82.9	80.6	87.5	86.8	87.8	84.0
14	85.8	83.2	84.5	85.1	87.0	86.1	80.8	84.4	88.7	90.0	84.2	81.2
15	86.3	83.1	85.5	85.6	85.0	82.2	86.3	83.0	87.0	88.5	84.2	84.3
16	84.8	83.5	87.4	87.5	88.3	79.7	87.2	84.6	87.0	88.8	81.9	85.6
17	85.7	85.0	87.4	87.4	84.8	80.4	83.3	85.8	87.5	86.8	80.6	87.1
18	87.2	83.9	87.7	86.3	82.5	72.2	79.6	85.2	87.0	86.1	85.1	87.3
19	86.7	83.8	86.4	82.9	82.9	84.3	81.3	84.4	86.9	85.0	85.3	85.0
20	87.4	83.4	84.3	84.4	82.9	84.9	84.2	84.4	88.7	85.5	86.8	84.3
21	87.0	80.6	85.2	83.5	85.3	84.2	82.7	86.1	87.7	84.7	85.2	87.4
22	85.4	81.8	81.9	85.6	81.0	86.8	82.9	84.6	84.0	83.9	85.3	83.3
23	87.3	76.5	82.3	83.0	83.6	86.0	83.6	81.2	86.9	85.7	84.7	84.9
24	81.8	78.6	84.0	85.1	86.7	88.0	81.9	82.5	85.3	84.2	83.5	86.0
25	85.5	81.4	84.0	84.2	87.4	85.5	80.4	83.1	89.1	82.1	86.9	84.6
26	88.0	83.8	82.3	84.6	87.2	84.1	83.7	80.4	88.3	87.3	87.3	84.5
27	86.1	83.6	83.2	82.1	86.4	83.6	83.1	84.5	88.8	88.5	88.3	84.7
28	86.8	81.0	84.9	87.2	88.3	82.1	81.3	83.2	88.4	85.7	85.8	83.8
29	84.1		86.1	84.7	86.1	82.9	84.8	87.1	88.0	88.1	87.3	82.7
30	83.7		86.0	87.4	82.9	87.4	85.2	86.2	88.2	86.8	86.7	85.4
31	84.5		88.0		84.4		86.2	86.8		86.7		84.7
Avg	85.5	82.0	84.8	85.2	85.3	84.3	83.6	84.3	86.5	86.2	85.3	84.3
Min	81.8	75.4	81.5	81.4	81.0	72.2	79.6	79.2	82.8	82.1	80.6	80.9
Max	88.7	86.5	88.0	88.9	88.9	88.8	87.2	87.1	89.1	90.0	88.3	87.4

Point Loma Wastewater Treatment Plant
2002 TSS Removal (%) Systemwide

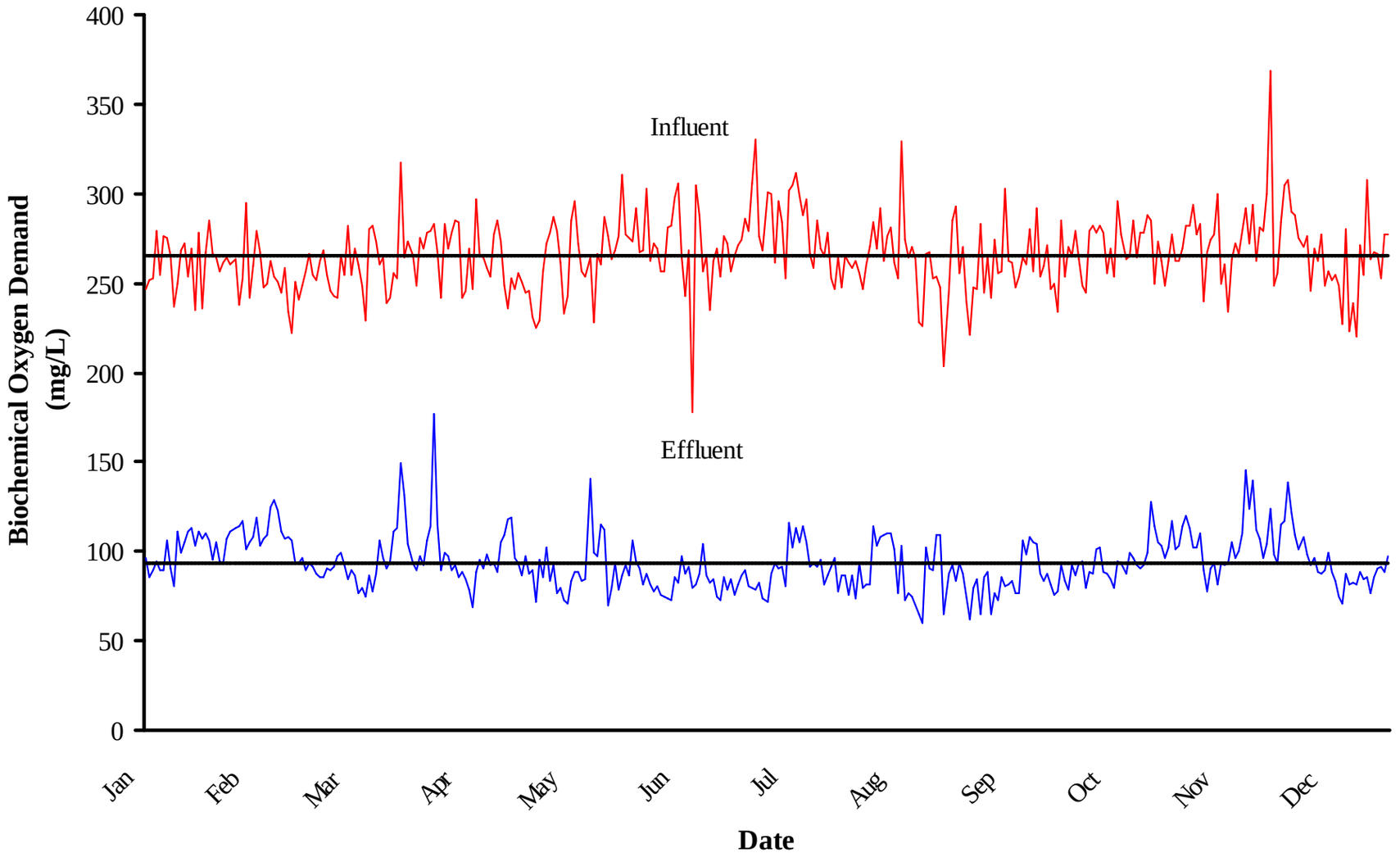


Point Loma Wastewater Treatment Plant

2002 Total Suspended Solids Removals (%) Systemwide

Day	Jan % Rem	Feb % Rem	Mar % Rem	Apr % Rem	May % Rem	Jun % Rem	Jul % Rem	Aug % Rem	Sep % Rem	Oct % Rem	Nov % Rem	Dec % Rem
1	85.7	85.8	86.5	88.9	85.7	83.8	82.9	86.4	87.3	87.5	86.8	85.1
2	87.7	87.0	85.6	89.5	85.5	81.0	81.0	86.4	87.0	89.7	84.6	84.8
3	85.9	88.5	85.6	89.9	86.5	84.3	85.0	87.7	86.0	87.9	82.8	82.7
4	86.0	84.0	88.6	83.9	87.3	83.7	80.9	84.7	87.8	89.2	86.7	79.5
5	85.0	84.0	86.4	84.0	84.2	85.8	85.4	85.9	84.5	85.2	85.7	81.9
6	85.0	85.2	85.8	86.2	84.6	85.1	85.1	86.1	85.6	84.4	86.8	85.8
7	87.0	82.4	85.5	82.2	87.0	84.9	84.0	87.0	85.1	87.1	86.2	87.7
8	86.0	78.7	86.1	84.2	85.1	86.4	84.7	85.8	83.5	89.2	86.5	84.1
9	86.0	79.4	85.0	85.2	86.8	87.0	81.6	86.7	84.3	86.3	87.4	85.1
10	89.0	81.3	82.7	85.2	86.3	87.4	81.6	83.4	86.7	86.3	86.5	83.3
11	86.0	77.5	83.0	85.4	89.1	89.0	67.7	80.0	86.2	85.7	87.4	85.2
12	85.0	84.8	84.5	86.3	89.7	87.2	80.4	83.1	93.3	87.1	87.2	86.4
13	83.0	85.0	87.0	88.0	86.1	85.6	81.0	82.5	88.5	87.8	88.5	85.2
14	87.0	84.4	85.1	86.3	88.4	86.0	82.3	85.2	89.3	91.0	84.9	82.7
15	87.0	83.3	86.8	86.9	86.3	82.8	85.1	83.7	88.1	89.7	85.4	85.6
16	85.0	84.5	88.0	88.3	89.0	81.1	83.1	85.5	88.2	89.6	83.0	86.5
17	86.0	86.2	88.0	87.7	86.1	81.6	80.3	86.7	88.5	87.8	81.9	88.0
18	88.0	85.0	88.9	86.3	83.3	71.4	78.5	86.3	88.1	87.2	86.1	88.4
19	87.0	85.1	86.5	84.6	83.1	84.7	82.2	85.5	88.0	86.2	86.5	86.4
20	86.0	84.9	83.8	85.1	84.0	85.9	85.0	83.7	89.4	86.8	87.9	85.9
21	86.0	82.5	85.7	84.5	86.5	85.4	83.8	87.2	88.9	85.3	86.5	88.3
22	86.0	83.1	83.1	86.4	82.7	87.9	77.9	85.6	85.1	85.1	86.3	86.2
23	88.0	83.1	82.7	84.1	84.7	87.0	84.7	82.1	88.1	86.8	85.8	85.8
24	82.0	78.6	84.9	86.0	87.5	87.0	83.4	83.0	86.4	85.6	84.5	87.4
25	86.0	80.4	84.8	85.4	88.3	88.0	81.6	78.3	90.0	83.7	87.8	86.0
26	88.0	83.1	83.6	85.8	88.1	86.5	84.5	81.6	89.3	88.3	88.4	85.8
27	86.0	85.2	84.3	83.5	87.2	85.0	84.2	85.5	89.7	89.6	89.2	86.0
28	87.0	85.1	85.8	88.0	89.1	84.8	82.4	84.2	89.4	87.3	86.8	85.5
29	85.0		86.5	85.8	87.3	83.2	86.2	87.9	89.0	89.2	79.5	85.4
30	83.0		86.9	88.8	84.2	83.9	85.7	87.1	89.2	88.3	86.1	86.6
31	81.0		88.7		85.5		86.8	88.2		87.5		85.8
Avg	85.9	83.5	85.7	86.1	86.3	84.8	82.5	84.9	87.7	87.4	86.0	85.5
Min	81.0	77.5	82.7	82.2	82.7	71.4	67.7	78.3	83.5	83.7	79.5	79.5
Max	89.0	88.5	88.9	89.9	89.7	89.0	86.8	88.2	93.3	91.0	89.2	88.4

Point Loma Wastewater Treatment Plant
2002 Biochemical Oxygen Demand



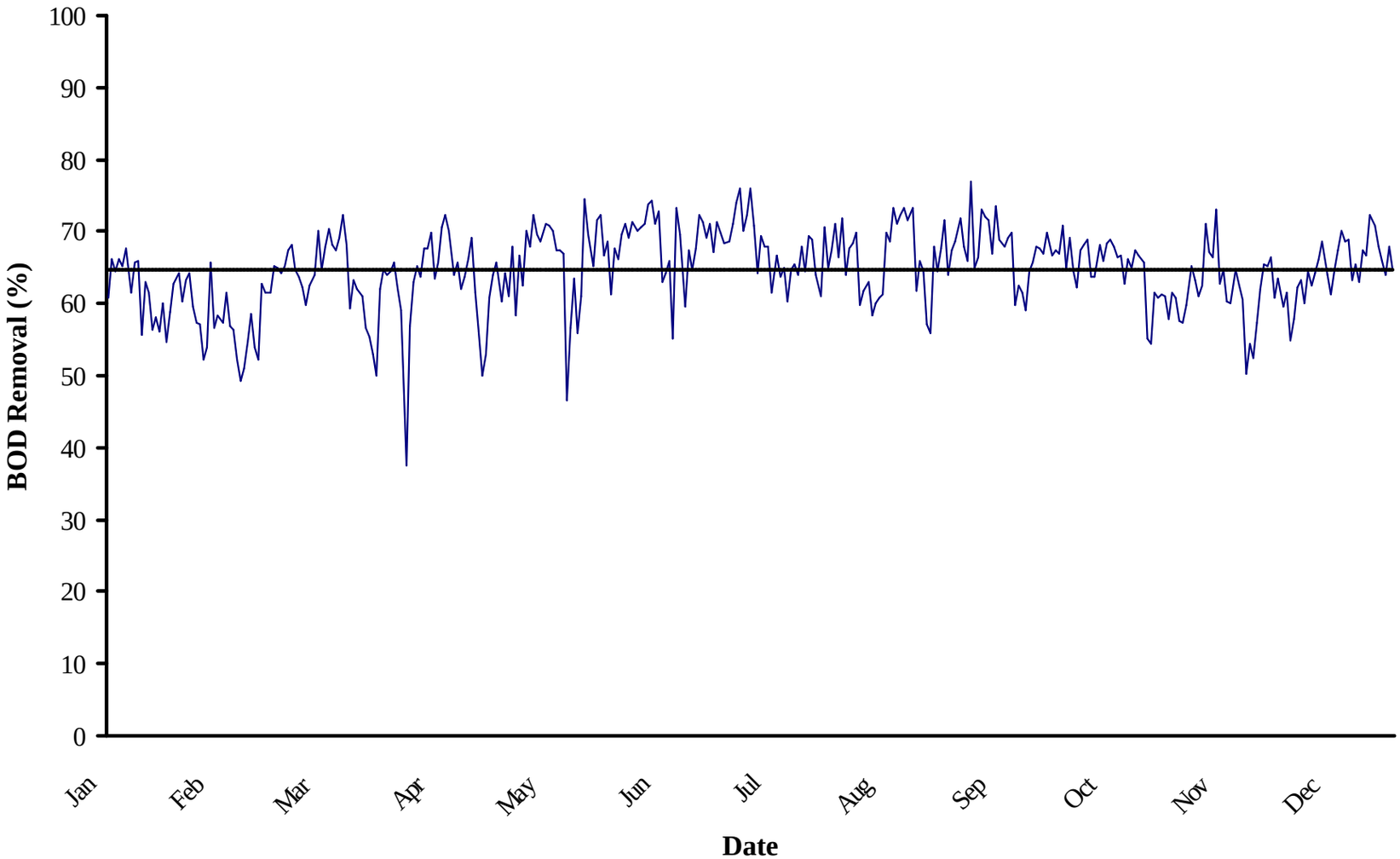
Point Loma Wastewater Treatment Plant

2002 Biochemical Oxygen Demand (mg/L)

	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec	
Day	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	245.0	90.1	267.0	110.0	257.0	89.7	249.0	89.8	251.0	86.2	273.0	106.0	271.0	81.6	261.0	75.2	**256.0**	**93.2**	254.0	83.9	262.0	101.0	284.0	115.0
2	277.0	92.6	285.0	106.0	266.0	93.1	275.0	97.5	245.0	97.2	292.0	94.5	274.0	86.4	258.0	86.7	270.0	87.8	270.0	78.6	262.0	103.0	305.0	117.0
3	260.0	88.4	266.0	95.4	255.0	91.1	269.0	91.9	246.0	87.7	267.0	90.4	286.0	89.9	262.0	74.2	240.0	75.1	265.0	92.7	269.0	114.0	308.0	139.0
4	282.0	86.6	264.0	105.0	252.0	87.8	278.0	106.0	231.0	89.9	268.0	81.4	279.0	81.0	**256.0**	**93.2**	221.0	62.3	279.0	86.5	282.0	120.0	290.0	122.0
5	215.0	82.8	257.0	94.2	262.0	85.2	279.0	114.0	225.0	71.9	303.0	87.7	306.0	79.2	247.0	80.0	248.0	79.8	263.0	93.3	282.0	113.0	288.0	109.0
6	255.0	90.8	261.0	93.5	268.0	85.5	283.0	177.0	229.0	95.6	262.0	81.3	330.0	78.9	260.0	81.9	247.0	84.2	249.0	94.1	294.0	102.0	275.0	101.0
7	270.0	87.8	264.0	107.0	255.0	90.2	267.0	115.0	257.0	85.5	272.0	78.0	276.0	82.4	270.0	81.6	283.0	65.1	245.0	79.6	277.0	102.0	270.0	108.0
8	268.0	85.8	260.0	111.0	246.0	89.3	242.0	89.4	272.0	102.0	269.0	80.7	268.0	74.0	284.0	114.0	245.0	85.9	279.0	88.6	283.0	110.0	276.0	98.0
9	260.0	88.3	263.0	113.0	243.0	91.8	283.0	98.9	278.0	83.2	257.0	75.6	301.0	72.0	269.0	103.0	264.0	88.9	282.0	87.9	240.0	89.8	246.0	92.4
10	257.0	94.9	238.0	114.0	242.0	97.5	269.0	97.4	287.0	92.2	257.0	74.5	300.0	87.2	292.0	108.0	242.0	65.3	278.0	101.0	267.0	77.3	269.0	96.1
11	233.0	82.0	253.0	117.0	265.0	99.6	278.0	89.9	279.0	76.9	281.0	73.8	261.0	93.3	262.0	109.0	274.0	76.6	282.0	102.0	274.0	90.1	262.0	88.6
12	245.0	89.8	295.0	101.0	255.0	92.0	285.0	92.2	261.0	79.7	282.0	72.5	296.0	90.7	276.0	110.0	256.0	72.9	278.0	88.8	277.0	93.2	277.0	87.1
13	252.0	105.0	242.0	105.0	282.0	84.6	284.0	85.4	233.0	72.9	298.0	85.8	284.0	91.1	281.0	110.0	257.0	85.3	256.0	87.4	300.0	81.1	249.0	89.6
14	251.0	99.1	259.0	108.0	255.0	89.7	242.0	88.1	243.0	70.3	306.0	82.9	253.0	80.9	261.0	101.0	303.0	80.2	269.0	84.7	250.0	93.2	257.0	99.7
15	247.0	96.8	279.0	119.0	269.0	86.0	246.0	84.1	285.0	83.1	264.0	97.6	302.0	116.0	253.0	76.2	262.0	81.5	254.0	79.2	260.0	92.0	252.0	88.7
16	252.0	85.5	267.0	103.0	260.0	77.0	269.0	79.0	296.0	88.6	243.0	87.0	305.0	102.0	329.0	103.0	261.0	83.7	296.0	94.6	234.0	93.0	255.0	83.4
17	253.0	89.7	248.0	107.0	249.0	79.2	247.0	68.5	272.0	88.5	268.0	91.4	312.0	113.0	274.0	73.2	248.0	76.4	277.0	93.3	263.0	105.0	249.0	74.6
18	279.0	94.7	250.0	109.0	229.0	74.7	297.0	88.8	257.0	83.7	178.0	79.7	299.0	105.0	264.0	76.6	254.0	76.6	263.0	87.9	272.0	96.0	227.0	71.0
19	255.0	89.1	262.0	125.0	280.0	86.8	265.0	95.4	254.0	84.1	305.0	81.6	288.0	114.0	270.0	75.1	264.0	106.0	265.0	98.8	266.0	100.0	280.0	87.4
20	276.0	89.1	254.0	129.0	282.0	78.1	264.0	90.6	264.0	141.0	288.0	87.2	297.0	105.0	263.0	70.1	260.0	97.8	285.0	96.5	279.0	110.0	223.0	81.8
21	275.0	106.0	251.0	123.0	273.0	87.1	258.0	98.1	228.0	99.2	257.0	104.0	266.0	91.7	228.0	65.0	280.0	108.0	264.0	92.4	292.0	145.0	239.0	82.6
22	265.0	90.8	245.0	111.0	260.0	106.0	254.0	92.1	266.0	97.3	265.0	86.3	258.0	92.9	226.0	60.4	257.0	105.0	278.0	90.4	272.0	124.0	220.0	81.7
23	237.0	80.6	258.0	107.0	264.0	96.8	277.0	93.5	260.0	115.0	235.0	82.7	285.0	91.3	266.0	102.0	292.0	104.0	278.0	92.8	294.0	140.0	271.0	88.3
24	250.0	111.0	234.0	108.0	239.0	90.6	285.0	88.0	287.0	112.0	262.0	84.8	269.0	95.5	267.0	90.8	254.0	87.3	288.0	99.2	262.0	112.0	255.0	84.9
25	268.0	99.1	222.0	106.0	242.0	94.3	273.0	105.0	276.0	70.2	269.0	74.9	265.0	81.4	253.0	89.7	259.0	83.1	285.0	128.0	281.0	107.0	308.0	85.1
26	272.0	105.0	251.0	93.7	256.0	111.0	249.0	109.0	263.0	80.0	254.0	72.6	278.0	86.5	254.0	109.0	271.0	87.6	250.0	114.0	279.0	96.4	263.0	76.5
27	254.0	111.0	241.0	93.1	253.0	113.0	236.0	118.0	268.0	93.6	276.0	85.5	253.0	91.1	248.0	109.0	247.0	81.7	273.0	105.0	300.0	104.0	267.0	85.5
28	269.0	113.0	249.0	96.0	317.0	149.0	253.0	119.0	276.0	78.4	272.0	78.5	247.0	96.4	203.0	65.0	250.0	75.3	262.0	103.0	369.0	124.0	266.0	90.7
29	235.0	103.0			264.0	132.0	247.0	96.6	311.0	86.5	257.0	84.6	264.0	77.9	246.0	87.6	234.0	77.9	249.0	96.3	249.0	97.8	253.0	91.1
30	278.0	111.0			273.0	104.0	**256.0**	**93.2**	277.0	92.2	265.0	75.7	248.0	86.9	285.0	92.3	285.0	92.5	262.0	102.0	**256.0**	**93.2**	277.0	88.7
31	236.0	107.0			265.0	93.3			275.0	86.3			265.0	86.6	293.0	83.2			277.0	117.0			277.0	97.7
Avg	257.1	95.0	256.6	107.5	260.6	94.4	265.3	98.4	263.0	89.4	268.2	84.0	280.2	90.4	263.3	88.9	259.5	84.2	269.5	94.8	274.9	104.3	265.7	93.6
Min	215.0	80.6	222.0	93.1	229.0	74.7	236.0	68.5	225.0	70.2	178.0	72.5	247.0	72.0	203.0	60.4	221.0	62.3	245.0	78.6	234.0	77.3	220.0	71.0
Max	282.0	113.0	295.0	129.0	317.0	149.0	297.0	177.0	311.0	141.0	306.0	106.0	330.0	116.0	329.0	114.0	303.0	108.0	296.0	128.0	369.0	145.0	308.0	139.0

BOLD=Batches failed QC on these dates. Used median BOD values from 2001, instead of result value.

Point Loma Wastwater Treatment
2002 BOD Removal (%) at Point Loma

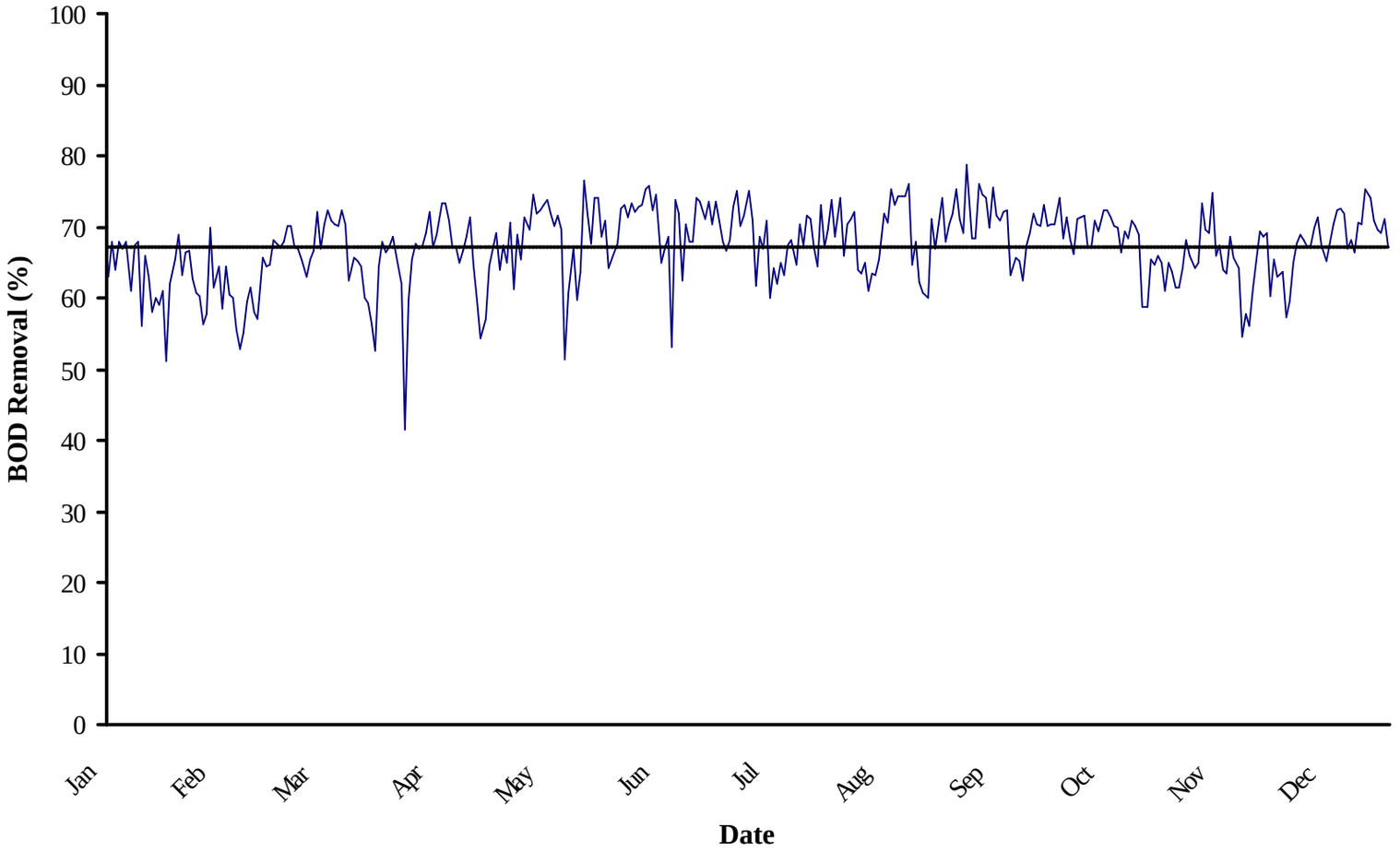


Point Loma Wastewater Treatment Plant

2002 Biochemical Oxygen Demand Removals (%) at Point Loma

Day	Jan % Rem	Feb % Rem	Mar % Rem	Apr % Rem	May % Rem	Jun % Rem	Jul % Rem	Aug % Rem	Sep % Rem	Oct % Rem	Nov % Rem	Dec % Rem
1	63.2	58.8	65.1	63.9	65.7	61.2	69.9	71.2	64.0	67.0	61.5	59.5
2	66.6	62.8	65.0	64.5	60.3	67.6	68.5	66.4	67.5	70.9	60.7	61.6
3	66.0	64.1	64.3	65.8	64.3	66.1	68.6	71.7	68.7	65.0	57.6	54.9
4	69.3	60.2	65.2	61.9	61.1	69.6	71.0	64.0	71.8	69.0	57.4	57.9
5	61.5	63.3	67.5	59.1	68.0	71.1	74.1	67.6	67.8	64.5	59.9	62.2
6	64.4	64.2	68.1	37.5	58.3	69.0	76.1	68.5	65.9	62.2	65.3	63.3
7	67.5	59.5	64.6	56.9	66.7	71.3	70.1	69.8	77.0	67.5	63.2	60.0
8	68.0	57.3	63.7	63.1	62.5	70.0	72.4	59.9	64.9	68.2	61.1	64.5
9	66.0	57.0	62.2	65.1	70.1	70.6	76.1	61.7	66.3	68.8	62.6	62.4
10	63.1	52.1	59.7	63.8	67.9	71.0	70.9	63.0	73.0	63.7	71.0	64.3
11	64.8	53.8	62.4	67.7	72.4	73.7	64.3	58.4	72.0	63.8	67.1	66.2
12	63.3	65.8	63.9	67.6	69.5	74.3	69.4	60.1	71.5	68.1	66.4	68.6
13	58.3	56.6	70.0	69.9	68.7	71.2	67.9	60.9	66.8	65.9	73.0	64.0
14	60.5	58.3	64.8	63.6	71.1	72.9	68.0	61.3	73.5	68.5	62.7	61.2
15	60.8	57.3	68.0	65.8	70.8	63.0	61.6	69.9	68.9	68.8	64.6	64.8
16	66.1	61.4	70.4	70.6	70.1	64.2	66.6	68.7	67.9	68.0	60.3	67.3
17	64.5	56.9	68.2	72.3	67.5	65.9	63.8	73.3	69.2	66.3	60.1	70.0
18	66.1	56.4	67.4	70.1	67.4	55.2	64.9	71.0	69.8	66.6	64.7	68.7
19	65.1	52.3	69.0	64.0	66.9	73.2	60.4	72.2	59.8	62.7	62.4	68.8
20	67.7	49.2	72.3	65.7	46.6	69.7	64.6	73.3	62.4	66.1	60.6	63.3
21	61.5	51.0	68.1	62.0	56.5	59.5	65.5	71.5	61.4	65.0	50.3	65.4
22	65.7	54.7	59.2	63.7	63.4	67.4	64.0	73.3	59.1	67.5	54.4	62.9
23	66.0	58.5	63.3	66.2	55.8	64.8	68.0	61.7	64.4	66.6	52.4	67.4
24	55.6	53.8	62.1	69.1	61.0	67.6	64.5	66.0	65.6	65.6	57.3	66.7
25	63.0	52.3	61.0	61.5	74.6	72.2	69.3	64.5	67.9	55.1	61.9	72.4
26	61.4	62.7	56.6	56.2	69.6	71.4	68.9	57.1	67.7	54.4	65.4	70.9
27	56.3	61.4	55.3	50.0	65.1	69.0	64.0	56.0	66.9	61.5	65.3	68.0
28	58.0	61.4	53.0	53.0	71.6	71.1	61.0	68.0	69.9	60.7	66.4	65.9
29	56.2		50.0	60.9	72.2	67.1	70.5	64.4	66.7	61.3	60.7	64.0
30	60.1		61.9	64.0	66.7	71.4	65.0	67.6	67.5	61.1	63.6	68.0
31	54.7		64.8		68.6		67.3	71.6		57.8		64.7
Avg	62.9	58.0	63.8	62.9	65.8	68.4	67.7	66.3	67.5	64.8	62.0	64.8
Min	54.7	49.2	50.0	37.5	46.6	55.2	60.4	56.0	59.1	54.4	50.3	54.9
Max	69.3	65.8	72.3	72.3	74.6	74.3	76.1	73.3	77.0	70.9	73.0	72.4

Point Loma Wastewater Treatment Plant
2002 BOD Removal (%) Systemwide

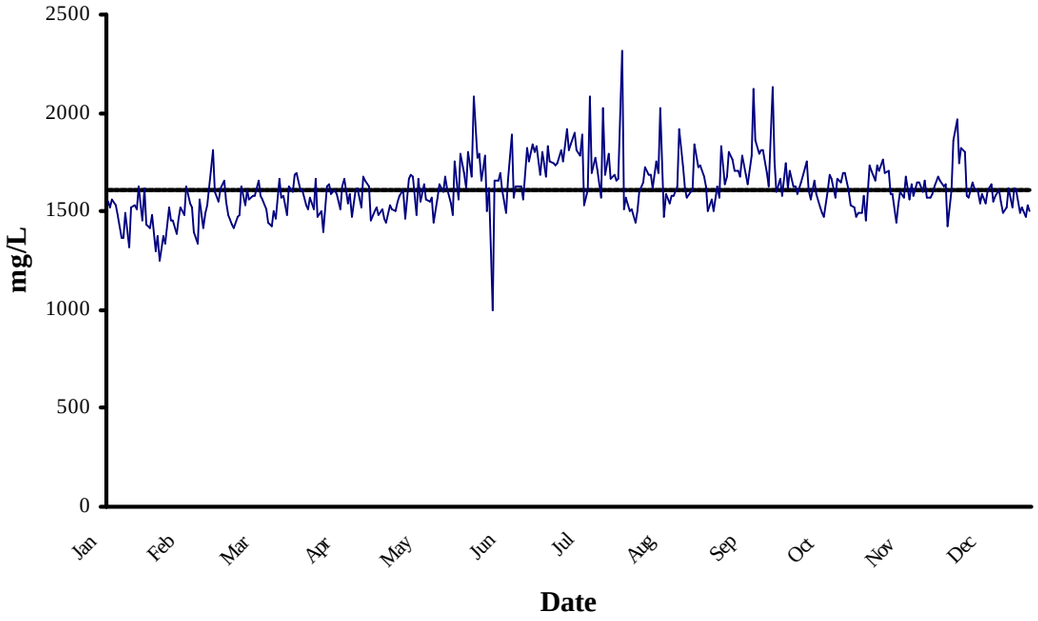


Point Loma Wastewater Treatment Plant

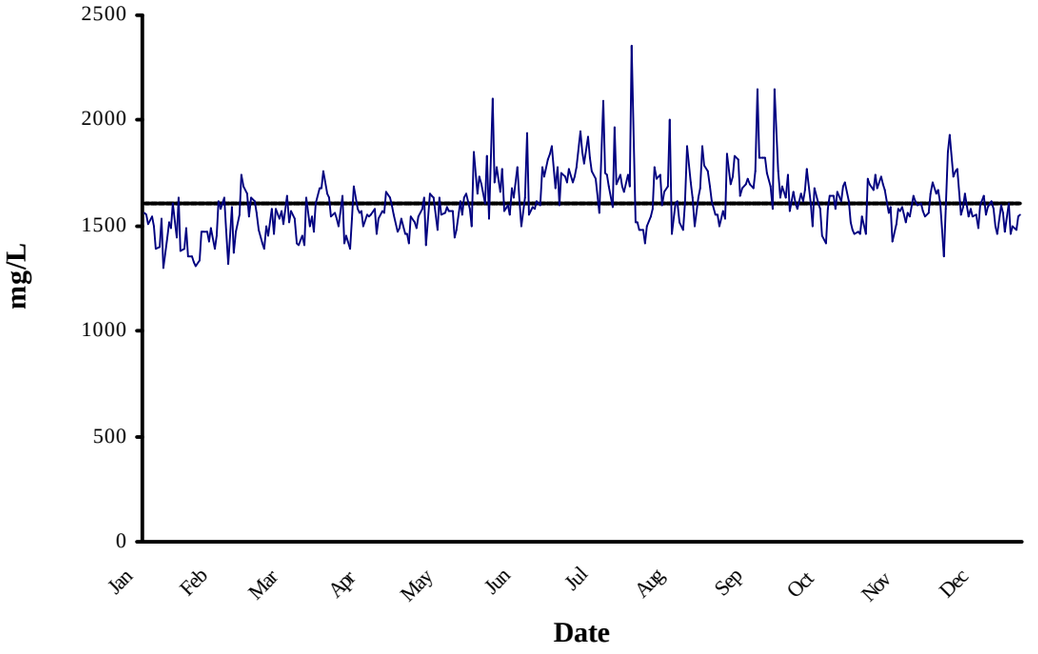
2002 Biochemical Oxygen Demand Removals (%) Systemwide

Day	Jan % Rem	Feb % Rem	Mar % Rem	Apr % Rem	May % Rem	Jun % Rem	Jul % Rem	Aug % Rem	Sep % Rem	Oct % Rem	Nov % Rem	Dec % Rem
1	66.4	62.0	68.1	66.5	69.1	64.1	70.8	73.8	68.0	70.3	64.8	62.9
2	68.6	65.4	67.7	67.2	63.8	65.7	68.0	68.8	70.3	74.1	63.7	63.7
3	68.2	69.0	67.1	68.7	67.4	67.7	66.7	74.1	71.9	68.4	61.6	57.3
4	71.0	63.3	68.0	64.7	64.9	72.6	68.1	66.0	75.2	71.3	61.4	59.4
5	64.0	66.4	70.2	62.0	70.7	73.2	72.7	70.3	71.1	68.2	64.3	64.8
6	66.1	66.8	70.2	41.6	61.3	71.3	75.0	71.2	69.2	66.1	68.0	67.7
7	69.1	62.6	67.2	59.7	69.0	73.3	70.2	72.0	78.7	71.2	65.9	68.8
8	70.0	60.7	66.8	65.3	65.4	72.1	71.7	63.9	68.4	71.3	64.2	68.2
9	68.0	60.3	65.4	67.6	71.4	72.9	75.0	63.4	68.4	71.7	65.0	67.1
10	66.0	56.3	63.0	66.9	69.5	73.0	70.9	65.0	76.1	67.2	73.3	67.5
11	67.0	57.7	65.5	67.5	74.5	75.3	61.7	61.0	74.6	67.1	69.6	70.0
12	65.0	69.8	66.6	69.2	71.9	75.9	68.6	63.5	74.0	71.0	69.3	71.2
13	60.0	61.4	72.1	72.2	72.4	72.3	67.0	63.2	70.0	69.4	74.9	67.4
14	62.0	64.4	66.9	67.1	73.1	74.5	70.8	65.3	75.6	72.3	65.9	65.2
15	63.0	58.6	70.5	68.8	73.8	65.1	60.1	72.0	71.5	72.4	67.5	67.9
16	68.0	64.4	72.5	73.3	71.9	66.9	64.1	70.6	70.9	71.4	64.0	70.3
17	64.0	60.5	70.8	73.3	70.0	68.6	61.9	75.3	72.1	70.0	63.4	72.3
18	68.0	59.9	70.3	70.9	71.7	53.2	65.0	73.1	72.2	69.8	68.5	72.6
19	67.0	55.5	70.2	67.3	69.5	73.8	63.2	74.4	63.2	66.3	65.6	71.8
20	68.0	53.0	72.2	67.2	51.4	71.9	67.5	74.4	65.7	69.3	64.1	66.8
21	61.0	55.0	70.3	65.1	60.8	62.6	68.1	74.4	65.2	68.5	54.5	68.1
22	67.4	59.5	62.4	66.7	66.9	70.5	64.7	76.0	62.6	70.7	57.7	66.3
23	68.0	61.5	65.7	68.8	59.6	68.0	70.4	64.7	67.4	70.1	56.0	70.6
24	56.0	57.9	65.3	71.4	63.7	68.0	67.5	67.9	69.1	68.8	61.3	70.4
25	66.0	57.1	64.4	64.6	76.6	74.0	71.6	62.1	71.9	58.8	65.3	75.3
26	63.0	65.7	60.1	59.4	71.7	73.5	71.1	60.8	70.4	58.8	69.3	74.1
27	58.0	64.6	59.3	54.3	67.7	71.2	67.3	60.0	70.0	65.5	68.7	70.9
28	60.0	64.7	56.2	57.0	74.1	73.6	64.5	71.1	73.0	64.7	69.2	69.7
29	59.0		52.7	64.5	74.0	70.3	73.2	66.9	70.2	66.0	60.3	69.2
30	61.0		64.5	67.0	68.5	73.6	67.3	70.3	70.3	65.0	65.4	71.1
31	51.0		67.8		71.0		69.5	74.1		61.0		67.5
Avg	64.5	61.6	66.5	65.5	68.6	70.3	68.2	68.7	70.6	68.3	65.1	68.3
Min	51.0	53.0	52.7	41.6	51.4	53.2	60.1	60.0	62.6	58.8	54.5	57.3
Max	71.0	69.8	72.5	73.3	76.6	75.9	75.0	76.0	78.7	74.1	74.9	75.3

Point Loma Influent
2002 Total Dissolved Solids (mg/L)



Point Loma Effluent
2002 Total Dissolved Solids (mg/L)



Point Loma Wastewater Treatment Plant

2002 Total Dissolved Solids (mg/L)

	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec	
Day	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	1580	1440	1480	1490	1550	1560	1510	1560	1440	1420	1800	1830	1830	1750	1500	1480	1560	1550	1710	1660	1710	1700	1610	1580
2	1450	1580	1300	1350	1480	1480	1570	1530	1530	1540	1680	1530	1750	1730	1510	1480	1500	1500	1630	1610	1660	1670	1860	1850
3	1500	1460	1380	1350	1430	1420	1510	1500	1510	1520	2080	2100	1740	1710	1440	1420	1630	1570	1630	1580	1730	1740	1970	1930
4	1330	1320	1250	1330	1410	1390	1670	1640	1500	1490	1770	1710	1730	1770	1500	1500	1570	1530	1590	1650	1710	1680	1740	1730
5	1380	1380	1380	1310	1470	1500	1470	1420	1550	1540	1790	1780	1740	1710	1600	1540	1830	1840	1650	1620	1760	1730	1820	1760
6	1310	1320	1340	1340	1480	1450	1500	1450	1580	1580	1660	1660	1810	1730	1650	1580	1640	1700	1690	1670	1700	1700	1800	1770
7	1410	1470	1520	1470	1630	1580	1400	1390	1610	1630	1780	1770	1750	1780	1720	1780	1680	1730	1750	1770	1710	1670	1580	1550
8	1510	1470	1450	1470	1530	1460	1630	1530	1460	1410	1500	1570	1920	1950	1690	1720	1800	1830	1610	1610	1590	1560	1570	1590
9	1530	1540	1450	1470	1610	1580	1640	1690	1670	1650	1620	1600	1810	1850	1690	1740	1760	1810	1560	1500	1590	1590	1650	1650
10	1690	1650	1390	1430	1560	1530	1590	1580	1690	1640	1000	1550	1840	1800	1620	1600	1710	1640	1660	1680	1440	1430	1620	1540
11	1600	1620	1460	1490	1580	1570	1610	1560	1680	1630	1660	1680	1900	1920	1750	1660	1710	1680	1590	1610	1530	1510	1600	1580
12	1500	1520	1520	1390	1580	1510	1590	1570	1480	1480	1660	1630	1810	1820	1700	1690	1680	1700	1520	1580	1600	1580	1540	1540
13	1620	1570	1480	1450	1660	1640	1510	1500	1670	1630	1700	1780	1780	1760	2030	2000	1780	1720	1490	1450	1570	1570	1590	1550
14	1500	1510	1630	1620	1580	1520	1630	1550	1550	1550	1610	1620	1890	1720	1470	1460	1690	1700	1470	1420	1680	1590	1540	1490
15	1550	1560	1540	1580	1560	1570	1670	1540	1640	1560	1490	1500	1530	1640	1590	1610	1640	1680	1610	1580	1560	1520	1610	1600
16	1520	1550	1520	1630	1510	1530	1540	1550	1560	1590	1660	1630	1610	1560	1540	1620	1780	1760	1690	1640	1640	1560	1640	1640
17	1560	1510	1400	1480	1440	1420	1590	1580	1550	1570	1890	1940	2080	2090	1580	1520	2120	2150	1670	1640	1580	1540	1550	1550
18	1530	1540	1340	1320	1420	1410	1470	1460	1570	1570	1570	1550	1700	1750	1580	1480	1860	1820	1570	1580	1650	1640	1580	1590
19	1480	1500	1560	1590	1500	1450	1610	1530	1440	1440	1630	1590	1770	1740	1630	1610	1790	1820	1670	1660	1650	1620	1610	1620
20	1370	1390	1410	1370	1460	1410	1620	1570	1570	1480	1630	1580	1710	1690	1920	1880	1810	1820	1650	1620	1600	1600	1550	1580
21	1370	1400	1490	1470	1670	1630	1520	1560	1640	1620	1630	1620	1570	1590	1720	1710	1810	1750	1700	1690	1660	1610	1490	1500
22	1490	1530	1530	1550	1570	1500	1680	1660	1600	1550	1560	1600	2030	1970	1620	1630	1700	1690	1700	1710	1570	1570	1520	1460
23	1320	1300	1710	1740	1580	1540	1660	1630	1680	1630	1820	1780	1690	1700	1570	1500	1630	1580	1610	1620	1570	1540	1620	1600
24	1520	1440	1810	1690	1480	1470	1630	1600	1620	1650	1750	1730	1790	1740	1600	1630	2130	2150	1530	1520	1590	1560	1520	1560
25	1530	1520	1600	1650	1630	1610	1450	1550	1540	1580	1840	1810	1670	1690	1610	1680	1750	1760	1520	1480	1630	1650	1620	1470
26	1510	1490	1550	1540	1600	1680	1500	1470	1480	1500	1800	1840	1690	1660	1840	1880	1600	1630	1470	1460	1680	1710	1610	1610
27	1630	1610	1620	1630	1690	1680	1520	1490	1750	1850	1830	1880	1660	1740	1720	1790	1670	1690	1490	1470	1660	1650	1490	1460
28	1450	1440	1660	1620	1700	1760	1480	1530	1560	1650	1690	1680	1670	1690	1730	1760	1580	1630	1490	1460	1630	1670	1520	1500
29	1620	1630			1610	1650	1510	1460	1790	1730	1800	1780	2320	2360	1680	1690	1740	1740	1580	1540	1640	1610	1470	1480
30	1430	1380			1610	1630	1460	1460	1700	1700	1680	1600	1510	1520	1630	1620	1620	1570	1450	1460	1420	1350	1530	1540
31	1410	1390			1530	1540			1620	1610			1570	1520	1500	1550			1730	1720			1500	1550
Avg	1490	1485	1492	1494	1552	1538	1558	1537	1588	1580	1686	1697	1770	1763	1643	1639	1726	1725	1603	1589	1624	1604	1610	1594
Min	1310	1300	1250	1310	1410	1390	1400	1390	1440	1410	1000	1500	1510	1520	1440	1420	1500	1500	1450	1420	1420	1350	1470	1460
Max	1690	1650	1810	1740	1700	1760	1680	1690	1790	1850	2080	2100	2320	2360	2030	2000	2130	2150	1750	1770	1760	1740	1970	1930

Toxicity Testing: Point Loma Ocean Outfall 2002

INTRODUCTION

The City of San Diego conducts aquatic bioassays as required by the City's National Pollutant Discharge Elimination System permit (No. CA0107409 and Order No. 95-106). The permit was renewed (Order No. R9-2002-0025) by U.S. EPA and adopted by the California Regional Water Quality Control Board on April 10, 2002. This testing is designed to determine the acute and chronic toxicity of effluent samples collected from the Point Loma Wastewater Treatment Plant. This chapter presents summaries and discussion of toxicity testing conducted in 2002.

Toxicity testing of wastewater effluent measures the bioavailability of toxicants in a complex mixture, accounts for synergistic and antagonistic actions, and integrates any potentially adverse effects of the constituents. Acute and chronic toxicity tests are characterized by the duration of exposure to a toxicant as well as the adverse effect (measured response) produced as the result of exposure to a toxicant. Acute toxicity testing consists of a short-term exposure period, usually 96 hours or less, and the acute effect refers to mortality of the test organism.

Chronic toxicity testing, in the classic sense, refers to long-term exposure of the test organism to a potential toxicant. This may involve exposing the test organism for its entire reproductive life cycle which may exceed 12 months for organisms such as fish. In general, chronic tests are inherently more sensitive to toxicants than acute tests in that adverse effects are detected at lower toxicant concentrations. The City of San Diego is required to conduct critical/early lifestage chronic tests that are intermediate between the acute and chronic toxicity testing protocols discussed above. These test results serve as short-term estimates of chronic toxicity.

MATERIALS & METHODS

Test Material

Twenty-four hour, flow-weighted, effluent composite samples were collected at the Point Loma Wastewater Treatment Plant and stored at 4EC until test initiation. All tests were initiated within 36 hours of sample collection. The acute toxicity test concentrations were 18, 32, 56, 75, and 100% effluent for the fathead minnow and *Ceriodaphnia* (water flea) tests, and 3.87, 7.75, 15.5, 31.0, and 62% (nominal) for the topsmelt and mysid tests. Dilution water for the effluent acute toxicity bioassays consisted of carbon filtered, aerated, and dechlorinated tap water for the fathead minnow tests, and dilute mineral water for the *Ceriodaphnia* tests. Dilution water for the acute topsmelt and mysid tests consisted of the same receiving water used in the chronic toxicity tests.

Chronic toxicity test concentrations were 0.15, 0.27, 0.49, 0.88, and 1.56% effluent. The protocols for the chronic bioassays specify the use of unimpacted receiving water as dilution water. Receiving water was collected at water quality station B8 (see City of San Diego 2002) and used within 96 hours of collection. The receiving water samples were collected from a depth of 2 m and stored at 4EC until test initiation. Dilution water for chronic reference toxicant testing was obtained from the Scripps Institution of Oceanography (SIO), filtered, held at 4EC, and used within 96 hours of collection. Detailed methodology for all toxicity testing are described in the City Bioassay Lab Standard Operating Procedures Manual.

Acute Bioassays

Fathead Minnow Survival Bioassay

Fathead minnow acute bioassays were conducted in accordance with USEPA protocol EPA/600/4-85/013 (USEPA 1985). The test organisms, *Pimephales promelas*, were purchased from Aquatic Bio Systems (Fort Collins, Colorado). Juvenile fish approximately 60-90 days old were exposed for 96 hours to the test material while being kept in a static non-renewal system where the test solutions were aerated, but otherwise left undisturbed throughout the test period.

Simultaneous reference toxicant testing was performed using sodium dodecyl sulfate (SDS). Test concentrations were 10, 18 and 32 mg/L SDS. Upon the conclusion of the exposure period, percent survival was recorded.

Tests were declared valid if control mortality did not exceed 10%. The data were analyzed using a multiple comparison procedure and linear interpolation method prescribed by USEPA (1985). ToxCalc software (Tidepool

Scientific Software 1994) was used for all statistical analyses.

Ceriodaphnia Survival Bioassay

Ceriodaphnia acute bioassays were conducted in accordance with USEPA protocol EPA/600/4-90/027F (USEPA 1993). The test organisms, *Ceriodaphnia dubia*, were cultured in-house at the bioassay laboratory. Newly released (< 24 hr) neonates were exposed for 48 hours to a series of effluent and reference toxicant concentrations while being kept in a static system.

Simultaneous reference toxicant testing was performed using reagent grade copper chloride. The concentrations of copper in the exposure series were 3, 6, 12, 24, and 48 Fg/L. Upon conclusion of the exposure period, percent survival was recorded. Tests were declared valid if control mortality did not exceed 10%. The data were analyzed using a multiple comparison procedure and point estimation method prescribed by USEPA (1993). ToxCalc software (Tidepool Scientific Software 1994) was used for all statistical analyses.

Topsmelt Survival Bioassay

The topsmelt acute bioassays were conducted in accordance with USEPA protocol EPA/600/4-90/027F (USEPA 1993) by EVS Environment consultants (N. Vancouver, BC) and the City's bioassay laboratory. Larval *Atherinops affinis* (9-14 days old) were purchased from Aquatic Bio Systems (Fort Collins, CO), and were exposed for 48 hours in a static system or 96 hours in a static renewal system to 3.83, 7.75, 15.5, 31.0, and 62% effluent (nominal). For the 96 hours tests, the test solutions were renewed at 48 hours.

Simultaneous reference toxicant testing was performed using reagent grade copper chloride. Test concentrations consisted of 56, 100, 180, 320 and 560 Fg/L copper. Dilution water for chronic reference toxicant testing was obtained from SIO, filtered, held at 4EC, and used within 96 hours of collection. Upon conclusion of the exposure period, percent survival was recorded. Tests were declared valid if control mortality did not exceed 10%. The data were analyzed using a multiple comparison procedure and point estimation method prescribed by USEPA (1993). ToxCalc software (Tidepool Scientific Software 1994) was used for all statistical analyses.

Mysid Survival Bioassay

The mysid acute bioassay was conducted in accordance with USEPA protocol EPA/600/4-90/027F (USEPA 1993) by EVS Environment consultants (N. Vancouver, BC) and the City's bioassay laboratory. Larval *Mysidopsis bahia* (4-5 days old) were purchased from Aquatic Bio Systems (Fort Collins, CO), and were exposed for 48 hours in a static system to 3.83, 7.75, 15.5, 31.0, and 62% effluent (nominal). For the 96 hours tests, the test solutions were renewed at 48 hours.

Simultaneous reference toxicant testing was performed using reagent grade copper chloride. Test concentrations consisted of 56, 100, 180, 320, and 560 Fg/L copper. Dilution water for chronic reference toxicant testing was obtained from SIO filtered, held at 4EC, and used within 96 hours of collection. Upon conclusion of the exposure period, percent survival was recorded. Tests were declared valid if control mortality did not exceed 10%. The data were analyzed using a multiple comparison procedure and point estimation method prescribed by USEPA (1993). ToxCalc software (Tidepool Scientific Software 1994) was used for all statistical analyses.

Chronic Bioassays

Kelp Germination and Growth Test

Chronic bioassays using the giant kelp, *Macrocystis pyrifera*, were conducted in accordance with USEPA protocol EPA/600/R-95/136 (USEPA 1995). Kelp zoospores were kept in a static system and exposed for 48 hours to a series of effluent and reference toxicant concentrations. Zoospores were obtained one day prior to test initiation from the reproductive blades (sporophylls) of adult *Macrocystis* plants collected in the kelp beds near La Jolla, California.

Simultaneous reference toxicant testing was performed using reagent grade copper chloride. The concentrations of copper in the exposure series were 5.6, 10, 18, 32, 56, 100, and 180 Fg/L. A reference toxicant control consisting of SIO dilution water was also tested. Upon conclusion of the exposure period, percent germination and germ-tube length were recorded.

The data were analyzed in accordance with "Flowchart for statistical analysis of giant kelp, *Macrocystis pyrifera*, germination data" and "Flowchart for statistical analysis of giant kelp, *Macrocystis pyrifera*, growth data" (see USEPA 1995). ToxCalc software (Tidepool Scientific Software 1994) was used for all statistical analyses.

Red Abalone Development Bioassay

Chronic bioassays using the red abalone, *Haliotis rufescens*, were conducted in accordance with USEPA protocol EPA/600/R-95/136 (USEPA 1995). Test organisms were purchased from Cultured Abalone (Goleta, California), and shipped via overnight delivery to the City's bioassay laboratory. Mature male and female abalone were placed in natural seawater tanks at 15EC. Prior to test initiation, spawning was induced and abalone eggs and sperm were retained for the analysis. Subsequently, the eggs were fertilized, and a known quantity of fertilized embryos was added to each test replicate at the beginning of the 48 hour exposure period.

Simultaneous reference toxicant testing was performed using reagent grade zinc sulfate. The concentrations of zinc in the exposure series were 10, 18, 32, 56, and 100 Fg/L. A reference toxicant control consisting of SIO dilution water was also tested. Upon conclusion of the exposure period, percent normal embryo development was recorded.

The percentage of normally developed embryos for each replicate was arcsine square root transformed. The data were analyzed in accordance with "Flowchart for statistical analysis of red abalone *Haliotis rufescens*, development data" (see USEPA 1995). ToxCalc software (Tidepool Scientific Software 1994) was used for all statistical analyses.

Topsmelt Survival and Growth Bioassay

Chronic bioassays using larvae of the topsmelt, *Atherinops affinis*, were conducted in accordance with USEPA protocol EPA/600/R-95/136 (USEPA 1995). Topsmelt larvae were purchased from Aquatic Bio Systems (Fort Collins, CO), and shipped via overnight delivery to the City's bioassay laboratory. Prior to test initiation, the test organisms were held in seawater tanks and gradually acclimated to test temperature and salinity. The bioassays were subsequently initiated when the topsmelt larvae were 9-14 days old. Larval fish were then exposed to a series of effluent and reference toxicant concentrations for a period of seven days while being maintained in a static renewal system. The test solutions were renewed daily.

Reference toxicant testing was performed using reagent grade copper chloride. The concentrations of copper in the exposure series were 32, 56, 100, 180, and 320 Fg/L. A separate control consisting of SIO dilution water was also tested. Upon conclusion of the exposure period, the percent survival and the percent growth (i.e., weight gain) of larval fish were recorded.

The survival data were arcsine square root transformed and then analyzed in accordance with the "Flowchart for statistical analysis of the topsmelt, *Atherinops affinis*, larval survival data" (USEPA 1995). Growth data were analyzed in accordance with the "Flowchart for statistical analysis of the topsmelt, *Atherinops affinis*, larval growth data" (USEPA 1995). ToxCalc software (Tidepool Scientific Software 1994) was used for all statistical analyses.

RESULTS & DISCUSSION

Acute Bioassays

The City conducted acute bioassays from January to April 2002 using both Fathead minnows (*Pimephales promelas*) and freshwater water fleas (*Ceriodaphnia dubia*) in accordance with Order No. 95-106. One additional *Ceriodaphnia* bioassay was performed in May immediately prior to adoption of Order No. R9-2002-0025. The toxic unit acute (TUa) values for the fathead minnows averaged 1.2 TUa and were within established NPDES limits throughout 2002 (Table T.2). In contrast, the *Ceriodaphnia* tests averaged 1.3 TUa for the year and exceeded the NPDES permit limits on several occasions, most notably in the 30-day average category (Table T.3). The *Ceriodaphnia* acute toxicity tests were conducted on a weekly basis to better characterize the persistence and source of toxicity. The increased test frequency did not produce a discernable pattern of toxicity as the incidences of toxicity were clearly sporadic and short-lived.

As stated in the City's 2000 receiving water monitoring report (City of San Diego 2001), the State of California has revised acute testing procedures for ocean dischargers. The new California Ocean Plan (COP) requires utilization of marine species instead of freshwater species. The document was approved by the Office of Administrative Law (OAL) and the EPA in December of 2001. The new COP requirements were incorporated into Order No. R9-2002-0025, and the City revised the acute test frequency and duration of the marine species (i.e., topsmelt, *Atherinops affinis* and mysid, *Mysidopsis bahia*) in May 2002 in response to the new permit. All tests demonstrated complete compliance with the new standards (Table T.4).

Chronic Bioassays

An annual screening of three species was conducted to verify sensitivity of the selected test organisms to Point Loma effluent. Giant kelp (*Macrocystis pyrifera),* red abalone (*Haliotis rufescens*), and topsmelt (*Atherinops affinis*) were screened and the results of these comparative bioassays are summarized in Table T.1. The results indicated equal sensitivity among all species. Subsequent chronic bioassays on effluent samples were conducted using both giant kelp and abalone since the giant kelp has been the most sensitive species in previous years and the red abalone remains ecologically important to the region.

The giant kelp and red abalone chronic toxicity tests conducted during 2002 are summarized in Table T.5. All red abalone tests were within compliance limits. The City began bi-weekly accelerated testing in November 2001 after the giant kelp test exceeded the compliance limit. The bi-weekly testing continued through July 2002 and the results revealed sporadic toxicity which may have been associated with operational reconfiguration of the NPDES sampling location and plant maintenance operations at PLWTP. All kelp tests were within established NPDES limits for the remainder of 2002.

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Table T.1
Results of the chronic screening bioassays conducted during April 2002 to verify the sensitivity of the selected test organisms. Data are presented as No Observed Effect Concentration (NOEC)

Chronic

Test Species	End-point Determination	Test Results (NOEC)
Giant Kelp	Percent germination	1.56
	Germ-tube length	1.56
Red Abalone	Percent normal development	1.56
Topsmelt	Percent survival	1.56
	Growth	1.56

Table T.2
Results and compliance summary for the acute toxicity testing of Point Loma Wastewater Plant effluent using the fathead minnow, *Pimephales promelas*, from January to April 2002. Data are presented in toxic unit acute (TUa) values. Numbers in parentheses indicate NPDES limits.

Sample Date	Daily (2.5)	7-day average (2.0)	30-day average (1.5)
9-Jan	1.1	1.1	1.1
2-Feb	1.1	1.1	1.1
14-Mar	1.5	1.5	1.5
16-Apr	1.0	1.0	1.0
N	4	4	4
No. in Compliance	4	4	4

Table T.3
Results and compliance summary for the acute toxicity testing of Point Loma Wastewater Plant effluent using the water flea, *Ceriodaphnia dubia*, from January to May 2002. Data are presented in toxic unit acute (TUa) values. Numbers in parentheses indicate NPDES limits.

Sample Date	Daily (2.5)	7-day average (2.0)	30-day average (1.5)
2-Jan	1.5	2.4	1.6
9-Jan	1.1	1.1	1.7
15-Jan	1.2	1.2	1.6
23-Jan	1.6	1.6	1.7
29-Jan	1.2	1.4	1.3
2-Feb	1.4	1.3	1.3
15-Feb	1.1	1.1	1.3
22-Feb	1.4	1.4	1.3
26-Feb	2.0	1.7	1.4
5-Mar	1.7	1.7	1.6
11-Mar	1.2	1.5	1.5
14-Mar	1.3	1.3	1.5
20-Mar	0.9	1.1	1.4
27-Mar	1.5	1.5	1.4
3-Apr	1.3	1.3	1.3
10-Apr	1.1	1.1	1.2
16-Apr	0.9	1.0	1.1
23-Apr	1.1	1.1	1.2
3-May	1.6	1.6	1.2
N	19	19	19
No. in compliance	19	18	14

Table T.4
Results and compliance summary of acute bioassays conducted during 2002 using the new California Ocean Plan approved marine species. Data are presented in toxic unit acute (TUa) values. The new California Ocean Plan compliance limit will be 6.5 TUa. All tests were conducted with B-8 receiving water as dilution unless otherwise indicated. N.T. = Not tested

Sample Date	Topsmelt 48-Hour Bioassay	Mysid 48-Hour Bioassay
	48 h Static Non-Renewal	
9-Jan	1.6	0.8
2-Feb	2.1	1.3
14-Mar	2.7	3.4
16-Apr	<1.5	<1.5

Sample Date	Topsmelt 48-Hour Bioassay	Mysid 48-Hour Bioassay
	96 h Static Renewal	
12-Jul	1.5	1.5
8-Oct	2.1	-
8-Oct	2.1	-

Table T.5
Results of chronic toxicity testing of Point Loma Wastewater Plant effluent from January to December 2002. Data are presented in toxic unit chronic (TUc) values. NPDES permit limit is 205 Tuc. N.T. = Not tested. N.V. = Not valid

	Giant Kelp Bioassay		Red Abalone Bioassay
Sample date	% Germination	Germ-tube Length	% Normal Development
9-Jan	64	64	64
16-Jan	64	64	
2-Feb	114	>667	64
8-Feb	64	64	
13-Feb[1]	64	>667	
26-Feb	64	64	
26-Feb[1]	64	64	
14-Mar	64	64	64
14-Mar[1]	64	64	
26-Mar	64	64	
26-Mar[1]	114	>667	
7-Apr	64	64	64
23-Apr	64	64	
9-May	114	64	64
22-May	64	114	
2-Jun	64	64	64
18-Jun	64	64	
12-Jul	64	667	64
23-Jul	64	64	
5-Aug	64	64	64
6-Sep	64	64	64
8-Oct	64	114	64
5-Nov	64	64	64
3-Dec	64	64	64
N	24	24	12
No in compliance	24	20	12
Mean TUc	70	169	64

[1]Sample collected in North Effluent Outfall Channel

E. 6-Year Tables.

Results of the determination of selected parameters on a weekly basis for the past 6-years.

ARSENIC (ug/L) 1997

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	2.1	1.3	2.3	1.3	1.4	1.1	1.8	1.3	2.6	1.3	2.1	1.6	2.8	2.2	2.1	0.7	2.7	2.0	2.8	1.6	2.8	1.6	1.3	1.1
2	2.2	1.4	2.6	1.2	2.0	2.3	2.2	1.4	2.1	1.6	2.2	1.9	3.5	1.5	1.4	0.8	2.6	2.6	2.3	1.4	2.2	1.6	1.0	1.0
3	2.5	1.5	1.7	1.1	2.0	2.4	2.4	1.8	2.6	1.8	2.0	1.6	2.9	1.5	1.2	0.8	2.6	1.7	2.1	1.9	2.1	1.5	1.4	1.0
4	4.6	1.8	2.1	1.4	1.6	1.2			2.3	2.1	2.1	1.4	2.7	1.4	1.3	1.1			3.2	1.8	2.4	1.7	1.5	0.7
Average	2.8	1.5	2.2	1.3	1.7	1.8	2.1	1.5	2.4	1.7	2.1	1.6	2.9	1.6	1.5	0.8	2.6	2.1	2.6	1.6	2.4	1.6	1.3	1.0

ARSENIC (ug/L) 1998

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	1.8	1.0	2.6	1.3	2.1	1.6	2.0	1.2	1.9	0.9	1.5	0.9	1.7	1.2	2.3	1.3	2.2	1.2	2.1	1.2	1.9	1.3	3.6	1.2
2	1.8	0.8	3.3	1.3	1.9	1.2	1.8	1.1	2.2	1.2	1.3	1.1	1.9	1.2	2.4	1.5	3.2	1.3	2.2	1.0	1.5	1.2	2.1	1.6
3	1.8	0.8	2.8	2.3	1.9	1.4	1.4	0.9	1.6	0.9	1.3	1.1	1.7	1.2	2.2	1.4	2.9	1.4	2.3	1.6	2.1	1.1	1.3	0.8
4	2.8	1.1			2.1	1.0	1.4	0.8	1.4	1.1	1.8	0.7			2.4	1.4	1.9	1.2	2.0	1.1	1.8	1.1	1.4	0.7
Average	2.0	0.9	2.9	1.6	2.0	1.3	1.7	1.0	1.8	1.0	1.5	1.0	1.7	1.2	2.3	1.4	2.6	1.3	2.1	1.2	1.9	1.2	2.1	1.1

ARSENIC (ug/L) 1999

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	1.5	0.8	1.8	1.0	1.4	0.8	1.3	0.8	1.3	0.9	1.7	1.0	1.6	1.1	1.7	1.1	1.8	1.1	1.9	1.5	1.5	0.7	1.7	0.9
2	1.6	0.8	1.7	0.8	1.6	0.9	1.6	1.0	1.6	0.9	1.9	1.2	2.0	1.2	2.0	1.1	1.7	1.1	1.6	1.2	1.9	1.0	1.5	1.0
3	1.6	0.9	1.6	0.8	1.4	0.8	1.7	0.7	1.5	1.2	1.5	1.0	1.6	1.1	1.9	1.1	1.8	1.2	2.1	1.4	2.0	1.2	1.2	1.0
4			1.7	1.1	2.9	1.3	2.0	1.1			1.5	1.0	1.5	1.4	1.7	1.1	1.4	1.0	2.1	1.0			1.1	0.9
Average	1.6	0.8	1.7	0.9	2.0	1.3	1.7	0.9	1.5	1.0	1.6	1.1	1.7	1.2	1.8	1.1	1.7	1.1	1.9	1.3	1.8	1.0	1.4	0.9

ARSENIC (ug/L) 2000

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	1.4	0.6	1.6	0.9	1.1	1.2	1.5	0.8	2.1	<0.2	0.3	<0.2	1.2	0.7	1.2	0.9	1.2	1.0	1.3	1.1	1.6	0.9	1.0	0.4
2	1.5	0.7	1.4	1.0	1.2	0.8	1.5	0.9	1.5	<0.2	1.4	1.1	1.5	0.8	1.1	1.0	1.3	1.0	1.3	0.8	1.2	1.1	1.2	0.7
3	1.3	0.8	1.5	1.1	0.9	0.7	1.4	0.9	2.3	0.2	1.1	0.9	1.3	0.8	1.0	0.7	0.8	0.7	1.4	1.0	1.3	0.9	1.0	0.7
4	1.2	0.7	1.4	0.8	1.1	0.6			0.2	0.7	1.5	0.8	1.3	1.2	2.2	1.4			1.5	1.1	0.9	0.8	1.2	0.9
Average	1.3	0.8	1.5	0.9	1.1	0.8	1.5	0.9	1.5	0.2	1.1	0.7	1.3	0.9	1.8	1.1	1.1	0.9	1.4	1.0	1.2	0.9	1.1	0.7

ARSENIC (ug/L) 2001

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	1.1	0.7	1.3	0.8	1.3	1.0	0.9	<0.2	1.2	0.8	4.3	1.0	1.2	0.7	1.6	1.1	1.6	1.1	2.0	0.9	1.0	1.1	1.7	0.9
2	1.5	0.8	1.5	0.9	0.7	1.0	0.7	0.5	1.2	1.0	1.1	0.7	1.1	0.7	1.4	0.9	0.7	1.2	1.0	0.3	1.7	1.1	1.3	0.6
3	0.8	0.6	0.9	0.6	1.1	<0.2	1.1	0.6	1.0	1.0	1.4	1.0	1.3	0.9	1.6	1.1	1.4	0.8	1.1	1.0	1.8	1.1	1.1	0.8
4	1.4	1.0			0.6	0.4	0.8	0.4	1.2	0.8	1.4	1.0			1.5	1.1	0.6	0.2	1.5	1.1	1.5	0.9	1.4	0.8
Average	1.2	0.8	1.2	0.8	0.9	0.6	0.9	0.4	1.1	0.9	2.1	0.9	1.2	0.8	1.5	1.1	1.1	0.8	1.4	0.8	1.5	1.0	1.3	0.8

ARSENIC (ug/L) 2002

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	0.88	0.65	1.4	0.89	1.1	0.62	1.60	1.54	1.20	1.14	1.74	0.98	2.31	1.89	1.23	1.17	1.73	1.72	1.86	1.52	1.87	1.56	1.29	0.91
2	1.33	0.84	1.72	0.92	1.16	0.90	0.99	0.57	1.83	1.34	1.53	0.90	2.96	2.34	2.76	2.25	2.18	1.95	1.06	0.74	1.88	1.58	2.73	2.36
3	1.21	1.09	1.05	0.65	0.61	0.69	1.57	1.59	2.34	1.56	2.84	2.74	2.65	1.74	2.13	1.14	1.87	1.55	1.86	1.74	1.12	0.75	1.53	1.02
4			1.38	1.13	0.72	0.82	1.14	0.66			1.44	1.06	1.83	1.46	2.81	1.87	1.20	0.81	2.33	2.41			1.52	0.76
Average	1.14	0.86	1.39	0.90	0.90	0.76	1.33	1.09	1.79	1.35	1.89	1.42	2.44	1.86	2.23	1.61	1.75	1.51	1.78	1.60	1.62	1.30	1.77	1.26

CADMIUM (ug/L) 1997

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	1.2	<1.0	2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.7
2	<1.0	<1.0	3.0	<1.0	1.1	1.5	1.9	<1.0	<1.0	<1.0	1.7	1.0	<1.0	1.5	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.1
3	<1.0	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.6
4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			<1.0	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			<1.0	<1.0	1.7	<1.0	<1.0	<1.0
Average	<1.0	<1.0	1.1	<1.0	0.3	<1.0	<1.0	<1.0	0.3	0.3	0.9	0.3	<1.0	0.4	<1.0	<1.0	0.4	<1.0	<1.0	<1.0	0.4	<1.0	<1.0	1.4

CADMIUM (ug/L) 1998

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2	<1.0	<1.0	<1.0	<1.0	2.1	1.6	<1.0	<1.0	<1.0	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	1.7	2.0	<1.0	<1.0	<1.0	<1.0	1.9	<1.0
3	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	1.4	<1.0	<1.0	<1.0	<1.0	2.4	<1.0	<1.0	<1.0	<1.0	<1.0	1.3	<1.0
4	<1.0	<1.0			1.5	<1.0	<1.0	<1.0	<1.0	<1.0	2.1	<1.0			<1.0	<1.0	2.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Average	<1.0	<1.0	<1.0	<1.0	1.2	0.4	<1.0	<1.0	<1.0	<1.0	1.5	0.4	<1.0	<1.0	<1.0	<1.0	1.6	0.9	<1.0	<1.0	<1.0	<1.0	0.8	<1.0

CADMIUM (ug/L) 1999

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	<1.0	<1.0	<1.0	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	<1.0
2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.3	<1.0
3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			<1.0	<1.0
Average	<1.0	<1.0	<1.0	<1.0	0.3	<1.0	0.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.3	0.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.6	<1.0

CADMIUM (ug/L) 2000

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	1.0	1.1	1.7	<1.0	1.0	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.6	1.3	<1.0	1.6	<1.0	<1.0	<1.0
2	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	1.5	<1.0	<1.0	1.7	<1.0	1.4	<1.0	<1.0	<1.0
3	1.2	<1.0	1.0	<1.0	2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.6	1.4	<1.0	1.3	<1.0	<1.0	<1.0	1.2	<1.0	2.8	<1.0
4	1.7	<1.0	<1.0	<1.0	<1.0	<1.0			<1.0	<1.0	14.6	<1.0	<1.0	<1.0	<1.0	<1.0			<1.0	1.4	<1.0	<1.0	<1.0	<1.0
Average	1.3	0.3	0.7	<1.0	0.8	<1.0	<1.0	<1.0	<1.0	<1.0	3.7	<1.0	<1.0	0.4	0.7	0.4	0.4	0.5	0.8	0.4	<1.0	<1.0	0.7	<1.0

CADMIUM (ug/L) 2001

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2	<1.0	<1.0	2.8	<1.0	<1.0	2.2	1.3	<1.0	2.8	<1.0	2.2	<1.0	<1.0	<1.0	2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
3	<1.0	2.5	2.6	<1.0	<1.0	<1.0	<1.0	<1.0	3.7	2.8	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4	<1.0	<1.0			<1.0	2.3	1.4	<1.0	2.5	<1.0	1.8	1.3			2.8	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	<1.0	<1.0
Average	<1.0	0.6	1.8	<1.0	<1.0	1.10	0.7	<1.0	2.6	0.7	1.0	0.3	<1.0	<1.0	1.6	0.3	<1.0	<1.0	<1.0	<1.0	<1.0	0.4	<1.0	<1.0

CADMIUM (ug/L) 2002

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	1.3	<1.0	<1.0	<1.0	2.5	<1.0	2.1	<1.0	<1.0	<1.0	1.3	1.6	2.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.9	<1.0
2	1.7	<1.0	<1.0	<1.0	<1.0	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	2.1	<1.0	<1.0	3.8	<1.0	<1.0	<1.0	<1.0	1.4	1.6	<1.0	<1.0
3	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.6	<1.0	<1.0	<1.0	1.2	<1.0	2.2	<1.0	1.5	2.4	<1.0	<1.0	1.0	<1.0	1.2	1.8	1.7	<1.0
4			1.5	<1.0	<1.0	<1.0	2.5	1.8			<1.0	<1.0	<1.0	3.4	<1.0	4.5	<1.0	<1.0	1.1	<1.0			<1.0	<1.0
Average	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	1.9	<1.0	<1.0	<1.0	0.6	<1.0	1.6	<1.0	<1.0	2.7	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0

CHROMIUM (ug/L) 1997

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	<5	<5	10	<5	10	<5	<5	<5	7	<5	7	<5	12	<5	<5	<5	<5	<5	10	<5	21	6	11	<5
2	8	6	16	<5	13	<5	<5	<5	<5	<5	12	<5	8	<5	<5	<5	<5	5	<5	9	<5	7	<5	10	<5
3	9	<5	12	<5	7	<5	<5	<5	7	<5	12	<5	<5	<5	<5	<5	<5	<5	11	<5	7	<5	12	<5
4	8	<5	10	<5	<5	<5			<5	<5	10	<5	10	<5	<5	<5			26	<5	18	<5	5	<5
Average	6	2	12	<5	8	<5	<5	<5	6	<5	10	<5	7	<5	<5	<5	2	<5	14	<5	13	2	10	<5

CHROMIUM (ug/L) 1998

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	9	<5	7	<5	7	<5	<5	<5	58	<5	<5	<5	13	<5	<5	<5	16	<5	7	<5	12	<5	13	<5
2	14	<5	10	<5	<5	9	<5	<5	6	<5	<5	<5	13	<5	8	<5	12	<5	<5	<5	11	<5	10	<5
3	11	<5	9	9	10	8	<5	<5	<5	<5	<5	<5	14	<5	14	<5	12	<5	9	<5	15	<5	14	<5
4	15	<5			11	<5	<5	<5	<5	<5	<5	<5			12	<5	14	5	12	<5	9	<5	8	<5
Average	12	<5	9	3	7	4	<5	<5	16	<5	<5	<5	13	<5	9	<5	14	1	7	<5	11	<5	11	<5

CHROMIUM (ug/L) 1999

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	65	<5	8	<5	18	<5	<5	<5	<5	<5	8	<5	7	<5	10	6	<5	<5	<5	<5	<5	<5	<5	<5
2	13	<5	17	<5	9	6	<5	<5	<5	<5	12	<5	<5	<5	14	<5	8	8	<5	<5	<5	<5	7	<5
3	10	<5	12	<5	13	<5	<5	<5	8	<5	11	<5	5	<5	9	<5	<5	<5	<5	<5	<5	<5	7	<5
4			9	<5	10	<5	<5	<5			6	<5	<5	<5	14	7	<5	<5	<5	<5			7	<5
Average	29	<5	11	<5	13	2	<5	<5	3	<5	9	<5	3	<5	12	3	2	2	<5	<5	<5	<5	5	<5

CHROMIUM (ug/L) 2000

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	6	<5	<5	<5	<5	<5	14	<5	11	<5	12	<5	<5	<5	6	<5	8	<5	7	<5	6	<5	15	<5
2	8	<5	<5	<5	<5	<5	7	<5	9	<5	7	<5	<5	<5	<5	<5	11	<5	13	<5	9	<5	16	<5
3	10	<5	8	<5	<5	<5	7	<5	9	<5	8	<5	<5	30	9	<5	11	<5	7	<5	<5	<5	16	9
4	<5	<5	<5	<5	<5	<5			13	<5	10	<5	<5	<5	7	<5			<5	<5	<5	<5	17	7
Average	6	<5	2	<5	<5	<5	9	<5	10	<5	9	<5	<5	7	6	<5	10	<5	7	<5	<5	<5	16	4

CHROMIUM (ug/L) 2001

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	15	32	16	12	<5	<5	<5	<5	11	<5	8	<5	<5	<5	5	<5	14	<5	8	<5	15	<5	<5	<5
2	9	9	<5	<5	9	<5	<5	<5	<5	<5	11	<5	12	<5	6	<5	7	<5	<5	<5	<5	<5	<5	<5
3	<5	8	<5	<5	7	<5	<5	<5	11	<5	9	<5	11	<5	<5	<5	<5	<5	6	<5	<5	<5	<5	<5
4	16	21			11	6	<5	<5	6	<5	<5	6			<5	<5	6	<5	8	<5	<5	<5	<5	<5
Average	11	18	5	4	7	2	<5	<5	7	<5	7	1	8	<5	3	<5	7	<5	<5	<5	4	<5	<5	<5

CHROMIUM (ug/L) 2002

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	6.3	<5	<5	<5	6.8	<5	<5	<5	<5	<5	9.1	<5	<5	<5	<5	<5	<5	<5	<5	<5	9.3	<5	8.3	<5
2	8.3	<5	<5	<5	7.4	<5	9.7	<5	<5	<5	7.8	<5	8.9	7.2	8.0	<5	<5	<5	<5	<5	6.5	<5	7.2	<5
3	5.4	<5	<5	<5	<5	<5	7.1	<5	8.8	<5	13.7	<5	6.8	<5	<5	<5	<5	<5	<5	<5	<5	<5	6.1	<5
4			6.0	<5	<5	<5	<5	<5			6.7	<5	<5	<5	11.4	<5	<5	<5	<5	<5			<5	<5
Average	6.7	<5	<5	<5	<5	<5	<5	<5	<5	<5	9.3	<5	<5	<5	<5	<5	<5	<5	<5	<5	5.3	<5	5.4	<5

COPPER (ug/L) 1997

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	2	60	95	49	69	27	121	69	166	108	169	115	139	72	166	123	100	145	89	37	87	54	165	306
2	73	33	117	67	77	26	128	79	207	68	127	64	115	83	123	99	92	39	76	60	117	53	118	103
3	67	26	102	48	69	39	113	45	151	21	135	80	116	52	65	54	93	64	87	87	61	43	135	95
4	79	48	112	46	131	28			108	45	166	234	104	63	64	151			94	29	130	59	124	100
Average	55	42	107	53	87	30	121	64	158	61	149	123	119	68	105	107	95	83	87	53	99	52	136	151

COPPER (ug/L) 1998

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	97	198	99	31	75	48	74	56	192	51	88	46	122	62	96	82	132	48	81	58	121	49	107	68
2	117	66	129	36	165	40	111	38	85	18	76	40	123	57	93	69	108	58	87	45	114	41	116	44
3	159	59	126	63	98	49	101	96	131	27	100	30	94	35	137	48	150	55	111	29	95	30	127	74
4	114	28			103	49	89	70	92	43	142	222			113	32	129	29	104	16	83	29	113	21
Average	122	88	118	43	110	47	94	65	125	35	102	85	113	51	110	58	130	48	96	37	103	37	116	52

COPPER (ug/L) 1999

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	96	60	97	98	159	75	117	46	149	55	103	72	133	64	99	44	118	45	108	75	136	73	93	31
2	119	88	110	40	156	43	88	40	133	45	129	70	133	159	143	24	169	60	104	72	137	53	116	120
3	90	29	91	65	121	40	112	70	246	124	178	45	167	58	107	117	116	34	130	33	142	46	97	31
4			120	66	106	37	82	46			119	33	128	56	96	38	235	155	131	115			112	68
Average	102	59	105	67	136	49	100	51	176	75	132	55	140	84	111	56	160	74	118	74	138	57	105	63

COPPER (ug/L) 2000

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	150	49	158	58	206	47	88	32	215	45	203	95	156	199	156	52	280	74	137	60	209	106	167	155
2	153	60	125	51	154	72	185	29	219	59	139	133	73	213	191	133	192	56	291	66	215	150	135	67
3	115	47	157	73	164	56	198	93	131	41	147	53	210	366	162	48	133	39	217	149	137	83	204	58
4	127	75	107	57	180	79			169	120	250	52	197	98	174	66			201	85	188	147	157	51
Average	136	58	137	60	176	64	157	51	184	66	185	83	159	219	171	75	202	56	212	90	187	122	166	83

COPPER (ug/L) 2001

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	193	114	185	98	174	121	223	99	152	63	165	226	160	90	185	79	253	73	329	63	129	26	196	84
2	202	141	158	205	162	61	168	90	178	177	268	69	164	68	327	185	138	70	234	121	169	110	181	81
3	194	93	197	157	204	127	177	84	192	163	207	95	178	159	323	174	274	149	122	256	109	94	198	91
4	186	112			165	92	185	88	270	102	131	88			157	141	197	176	218	91	162	109	185	85
Average	194	115	180	153	176	100	188	90	198	126	193	120	167	106	248	145	216	117	226	133	142	85	190	85

COPPER (ug/L) 2002

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	140	49	126	42	256	185	156	59	130	39	139	107	174	115	120	39	117	44	127	51	202	38	159	60
2	194	49	223	72	243	45	161	46	190	101	139	76	252	67	144	65	156	219	179	89	199	134	159	89
3	246	83	140	154	144	122	135	45	104	92	143	41	231	29	197	75	119	76	143	78	153	77	143	45
4			140	100	129	63	141	91			147	120	110	82	199	94	92	73	206	49			105	20
Average	193	60	157	92	195	104	148	60	141	77	142	86	192	73	165	68	121	103	164	67	185	83	142	54

LEAD (ug/L) 1997

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18
2	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18
3	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	26	<18
4	<18	<18	<18	<18	<18	<18			<18	<18	<18	<18	<18	<18	<18	<18			<18	<18	<18	<18	<18	<18
Average	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	7	<18

LEAD (ug/L) 1998

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	<18	<18	<18	<18	<18	<18	<18	25	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18
2	<18	<18	<18	<18	29	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18
3	<18	<18	<18	<18	19	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	46	<18	<18	<18	<18
4	<18	<18			41	<18	28	<18	<18	<18	<18	<18			<18	<18	<18	<18	<18	<18	<18	<18	<18	<18
Average	<18	<18	<18	<18	22	<18	7	6	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	12	<18	<18	<18	<18

LEAD (ug/L) 1999

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18
2	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18
3	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18
4			<18	<18	<18	<18	<18	<18			<18	<18	26	<18	<18	<18	<18	<18	<18	<18			<18	<18
Average	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	6	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18

LEAD (ug/L) 2000

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18
2	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18
3	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18
4	<18	<18	<18	<18	<18	<18			<18	<18	<18	<18	<18	<18	<18	<18			<18	<18	<18	<18	<18	<18
Average	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18

LEAD (ug/L) 2001

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18
2	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18
3	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18
4	<18	<18			<18	<18	<18	<18	<18	<18	<18	<18			<18	<18	<18	<18	<18	<18	<18	<18	<18	<18
Average	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18

LEAD (ug/L) 2002

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	22	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18
2	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18
3	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	25	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18
4			<18	<18	<18	<18	<18	<18			<18	<18	<18	<18	<18	<18	<18	<18	<18	<18			<18	<18
Average	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18

NICKEL (ug/L) 1997

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	<14	<14	18	<14	25	<14	<14	<14	<14	<14	<14	<14	<14	<14	22	20	<14	<14	<14	16	17	<14	<14	<14
2	<14	<14	20	19	18	<14	<14	<14	<14	<14	24	<14	<14	<14	23	22	28	<14	<14	18	<14	<14	18	<14
3	<14	<14	20	<14	<14	<14	<14	<14	<14	<14	24	<14	<14	<14	<14	<14	20	<14	<14	<14	<14	<14	<14	<14
4	<14	<14	<14	<14	<14	17			<14	<14	17	<14	<14	<14	<14	<14			32	<14	<14	17	<14	<14
Average	<14	<14	15	5	11	4	<14	<14	<14	<14	16	<14	<14	<14	11	11	<14	<14	8	9	4	4	5	<14

NICKEL (ug/L) 1998

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	29	20	<14	<14	29	<14	<14	<14
2	19	<14	<14	<14	21	<14	31	<14	<14	<14	<14	<14	<14	<14	<14	<14	26	<14	<14	<14	<14	<14	<14	<14
3	20	<14	<14	<14	17	<14	<14	<14	18	<14	<14	<14	<14	<14	<14	<14	<14	<14	22	<14	31	<14	<14	<14
4	<14	<14			<14	<14	16	<14	14	<14	<14	<14			20	<14	<14	17	<14	<14	25	<14	<14	<14
Average	10	<14	<14	<14	10	<14	12	<14	8	<14	<14	<14	<14	<14	5	<14	14	9	6	<14	21	<14	<14	<14

NICKEL (ug/L) 1999

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	45	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	20	<14	<14	<14	<14	<14	<14	<14	20	<14
2	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	16	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	27	<14
3	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	21	<14
4			<14	<14	<14	<14	17	<14			17	<14	<14	<14	<14	<14	<14	15	<14	<14			<14	29
Average	15	<14	<14	<14	<14	<14	4	<14	<14	<14	8	<14	<14	<14	5	<14	<14	4	<14	<14	<14	<14	17	7

NICKEL (ug/L) 2000

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	<14	<14	<14	<14	<14	<14	<14	19	15	<14	<14	<14	19	19	19	<14	<14	15	<14	<14	<14	<14	<14	<14
2	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	16	19	31	72	<14	<14	30	<14	<14	<14	<14	<14
3	<14	<14	<14	<14	<14	<14	16	<14	19	24	<14	<14	<14	26	34	33	<14	<14	<14	<14	<14	<14	<14	<14
4	<14	<14	<14	<14	<14	16			19	<14	15	<14	16	<14	26	<14			<14	<14	<14	<14	<14	<14
Average	<14	<14	<14	<14	<14	4	5	6	13	6	4	<14	13	16	28	26	<14	<14	11	<14	<14	<14	<14	<14

NICKEL (ug/L) 2001

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	<14	22	17	<14	<14	<14	<14	17	<14	<14	<14	<14	15	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14
2	<14	15	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	29	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14
3	<14	<14	21	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	18	<14	<14	<14	<14	<14	<14	<14
4	<14	<14			<14	<14	<14	<14	<14	<14	<14	<14			<14	<14	<14	<14	<14	<14	<14	<14	<14	<14
Average	<14	9	13	<14	<14	<14	<14	4	<14	<14	<14	<14	15	<14	<14	<14	5	<14	<14	<14	<14	<14	<14	<14

NICKEL (ug/L) 2002

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	20	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14
2	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14
3	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	17	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14
4			<14	<14	<14	<14	<14	<14			<14	<14	<14	<14	<14	<14	<14	<14	<14	<14			<14	<14
Average	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14

MERCURY (ug/L) 1997

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	<0.27	<0.27	0.50	<0.27	<0.27	<0.27	<0.27	<0.27	0.40	<0.27	0.27	<0.27	<0.27	<0.27	0.32	<0.27	<0.27	<0.27	0.33	<0.27	0.32	<0.27	0.48	<0.27
2	<0.27	<0.27	0.36	<0.27	<0.27	<0.27	0.52	0.32	0.37	<0.27	NA	NA	0.57	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	0.46	<0.27
3	0.53	0.38	0.48	0.38	<0.27	<0.27	0.53	0.40	0.38	<0.27	0.44	<0.27	0.55	<0.27	<0.27	<0.27	0.39	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27
4	0.32	<0.27	0.38	<0.27	<0.27	<0.27			0.41	<0.27	<0.27	<0.27	0.58	<0.27	0.36	<0.27			0.47	<0.27	0.70	<0.27	<0.27	<0.27
Average	0.21	<0.27	0.43	0.10	<0.27	<0.27	0.35	0.24	0.39	<0.27	0.24	<0.27	0.43	<0.27	0.08	<0.27	0.13	<0.27	0.08	<0.27	0.18	<0.27	0.24	<0.27

MERCURY (ug/L) 1998

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	<0.27	<0.27	<0.27	<0.27	0.42	0.38	0.66	0.43	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	0.64	<0.27	0.77	0.51
2	<0.27	<0.27	0.37	<0.27	0.30	<0.27	0.48	<0.27	0.51	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	0.37	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27
3	0.89	<0.27	<0.27	<0.27	0.48	<0.27	<0.27	<0.27	0.57	<0.27	<0.27	<0.27	0.30	<0.27	0.37	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27
4	0.39	<0.27			<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	0.99	<0.27			0.33	<0.27	<0.27	<0.27	0.32	0.45	<0.27	<0.27	<0.27	<0.27
Average	0.32	<0.27	0.12	<0.27	0.30	0.10	0.29	0.11	0.27	<0.27	0.25	<0.27	0.10	<0.27	0.18	<0.27	0.09	<0.27	0.08	0.11	0.16	<0.27	0.19	0.13

MERCURY (ug/L) 1999

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	0.34	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27
2	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	0.54	0.44	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	0.41	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27
3	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	0.48	<0.27	<0.27	<0.27	0.55	<0.27	<0.27	<0.27	<0.27	<0.27	0.45	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27
4			<0.27	<0.27	<0.27	<0.27	<0.27	<0.27			<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	0.42	<0.27			<0.27	<0.27
Average	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	0.26	0.11	<0.27	<0.27	0.14	<0.27	<0.27	<0.27	0.19	<0.27	0.11	<0.27	0.11	<0.27	<0.27	<0.27	<0.27	<0.27

MERCURY (ug/L) 2000

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	<0.27	<0.27	0.54	<0.27	<0.27	<0.27	<0.27	<0.27	0.86	<0.27	<0.27	<0.27	0.33	<0.27	<0.27	<0.27	<0.27	<0.27	0.71	<0.27	<0.27	<0.27	<0.27	<0.27
2	<0.27	<0.27	<0.27	<0.27	0.46	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	0.27	<0.27	<0.27	<0.27	<0.27
3	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	0.35	<0.27	0.38	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	1.08	<0.27	0.37	<0.27	<0.27	<0.27	<0.27	<0.27
4	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27			0.46	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27			<0.27	<0.27	<0.27	<0.27	0.40	<0.27
Average	<0.27	<0.27	0.14	<0.27	0.12	<0.27	0.12	<0.27	0.43	<0.27	<0.27	<0.27	0.08	<0.27	<0.27	<0.27	0.36	<0.27	0.27	0.07	<0.27	<0.27	0.10	<0.27

MERCURY (ug/L) 2001

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	0.36	<0.27	<0.27	<0.27	0.46	<0.27	0.28	<0.27	0.39	<0.27	<0.27	<0.27	<0.27	<0.27
2	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	0.42	<0.27	0.30	<0.27	<0.27	<0.27	0.34	<0.27	0.39	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27
3	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	0.59	<0.27	0.34	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	0.32	<0.27	<0.27	<0.27
4	<0.27	<0.27			<0.27	<0.27	<0.27	<0.27	0.41	<0.27	0.29	<0.27			<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	0.47	<0.27	<0.27	<0.27
Average	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	0.36	<0.27	0.32	<0.27	<0.27	<0.27	0.20	<0.27	0.17	<0.27	0.10	<0.27	0.20	<0.27	<0.27	<0.27

MERCURY (ug/L) 2002

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.20	0.14	0.24	<0.09
2	.31	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.31	0.10	<0.09	<0.09
3	.42	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.32	<0.09	0.20	<0.09
4			<0.27	<0.27	<0.27	<0.27	<0.27	<0.27			<0.27	<0.27	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			0.09	<0.09
Average	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	0.27	<0.27	<0.27	<0.27	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.28	<0.09	0.13	<0.09

SILVER (ug/L) 1997

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	7.9	<6.6	<6.6	<6.6	13.2	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	8.1	<6.6
2	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	8.3	<6.6	<6.6	<6.6	9.5	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	10.1	<6.6
3	<6.6	7.0	<6.6	<6.6	<6.6	<6.6	17.5	<6.6	<6.6	<6.6	8.6	<6.6	8.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6
4	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6			<6.6	<6.6	10.0	<6.6	<6.6	<6.6	<6.6	<6.6			<6.6	<6.6	7.4	<6.6	<6.6	<6.6
Average	<6.6	1.8	<6.6	<6.6	<6.6	<6.6	8.6	<6.6	<6.6	<6.6	9.0	<6.6	2.2	<6.6	3.3	<6.6	<6.6	<6.6	<6.6	<6.6	1.9	<6.6	4.6	<6.6

SILVER (ug/L) 1998

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	27.2	10.8	<6.6	<6.6	<6.6
2	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6
3	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	6.7	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	13.1	8.8	<6.6	9.0	<6.6
4	<6.6	<6.6			<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	9.4	<6.6			<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	11.1	<6.6	<6.6
Average	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	1.7	<6.6	2.4	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	10.1	4.9	2.8	2.3	<6.6

SILVER (ug/L) 1999

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	<6.6	<6.6	<6.6	<6.6	9.9	<6.6	<6.6	<6.6	8.3	<6.6	<6.6	7.9	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	27.2	<6.6	<6.6	<6.6	<6.6
2	<6.6	<6.6	<6.6	<6.6	16.0	7.6	<6.6	<6.6	6.6	<6.6	<6.6	8.8	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	9.0	<6.6	<6.6	<6.6
3	<6.6	<6.6	<6.6	<6.6	11.9	<6.6	<6.6	<6.6	14.2	<6.6	<6.6	11.2	<6.6	<6.6	10.9	<6.6	<6.6	<6.6	<6.6	13.1	<6.6	<6.6	<6.6	<6.6
4			<6.6	<6.6	<6.6	14.2	<6.6	<6.6			<6.6	<6.6	<6.6	<6.6	<6.6	6.7	<6.6	<6.6	<6.6	<6.6			<6.6	<6.6
Average	<6.6	<6.6	<6.6	<6.6	9.5	5.5	<6.6	<6.6	9.7	<6.6	<6.6	7.0	<6.6	<6.6	2.7	1.7	<6.6	<6.6	<6.6	10.1	3.0	<6.6	<6.6	<6.6

SILVER (ug/L) 2000

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	27.2	<6.6	<6.6	9.8	<6.6
2	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6
3	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	12.3	<6.6	<6.6	<6.6	<6.6	<6.6	13.1	<6.6	<6.6	6.7	<6.6
4	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6			<6.6	<6.6	<6.6	<6.6	<6.6	7.8	<6.6	<6.6			<6.6	<6.6	<6.6	<6.6	<6.6	<6.6
Average	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	5.0	<6.6	<6.6	<6.6	<6.6	<6.6	10.1	<6.6	<6.6	4.1	<6.6

SILVER (ug/L) 2001

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	<6.6	<6.6	<6.6	<6.6	<6.6	1.0	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	12.1	<6.6	7.4	<6.6	<6.6	<6.6	<6.6	<6.6	7.0	<6.6	<6.6	<6.6
2	<6.6	<6.6	<6.6	9.1	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	15.7	<6.6	8.1	<6.6	<6.6	<6.6	<6.6	<6.6	20.9	<6.6	<6.6	<6.6
3	<6.6	<6.6	<6.6	11.0	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	11.5	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6
4	<6.6	<6.6			13.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6			<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6
Average	<6.6	<6.6	<6.6	6.7	3.4	2.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	9.3	<6.6	6.8	<6.6	<6.6	<6.6	<6.6	<6.6	7.0	<6.6	<6.6	<6.6

SILVER (ug/L) 2002

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	18.2	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6
2	<6.6	<6.6	9.3	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	11.1	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	9.8	<6.6
3	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	8.8	<6.6	<6.6	<6.6	7.5	19.7	<6.6	<6.6	8.7	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	9.4	<6.6
4					<6.6	<6.6	7.5	<6.6			<6.6		<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6			11.6	<6.6
Average	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	9.5	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	7.7	<6.6

ZINC (ug/L) 1997

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	89	38	131	81	238	170	126	21	148	40	186	89	183	171	164	96	115	57	128	40	105	18	148	52
2	99	34	147	54	185	169	131	13	159	45	226	93	225	187	167	45	143	48	119	26	144	28	159	43
3	71	36	135	30	258	151	117	17	196	50	218	93	188	70	139	51	663	152	115	27	98	23	169	59
4	115	34	161	37	323	154			129	43	194	91	176	70	118	40			276	21	193	25	120	31
Average	94	36	144	51	251	161	125	17	158	45	206	92	193	125	147	58	307	86	160	29	135	24	149	46

ZINC (ug/L) 1998

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	116	45	134	29	117	4	124	241	148	15	127	52	128	32	135	40	179	38	126	154	158	33	196	44
2	174	36	147	43	168	40	132	33	132	27	131	63	127	31	124	35	327	27	157	75	155	33	148	40
3	129	44	146	60	148	57	130	31	160	20	148	54	132	30	184	29	169	29	186	61	184	108	163	42
4	185	32			144	50	132	33	138	104	173	60			175	30	207	31	180	56	141	46	143	60
Average	151	39	142	44	144	38	130	85	145	42	145	57	129	31	155	34	221	31	162	87	160	55	163	47

ZINC (ug/L) 1999

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	140	29	107	32	154	40	112	31	140	41	159	40	182	29	176	70	307	35	162	33	118	46	132	25
2	153	44	182	38	146	36	119	34	122	26	181	34	142	37	185	62	182	48	184	36	160	43	139	257
3	122	31	147	30	124	33	118	36	143	34	165	45	147	36	169	47	146	54	148	38	147	68	125	56
4			139	38	161	33	124	26			174	77	163	52	143	42	151	34	140	34			108	42
Average	138	35	144	35	146	36	118	32	135	34	170	49	159	39	168	55	197	43	159	35	142	52	126	95

ZINC (ug/L) 2000

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	126	32	182	62	142	37	136	35	182	39	144	24	226	135	166	25	140	27	115	22	152	26	165	42
2	181	33	190	69	179	33	110	26	179	33	126	23	261	150	154	21	169	25	270	23	141	27	175	31
3	152	50	151	67	148	30	116	27	148	39	155	23	249	151	158	27	130	20	137	29	134	34	171	33
4	150	43	175	69	147	58			154	31	170	28	222	127	144	23			129	29	117	33	171	35
Average	152	40	175	67	154	40	121	29	166	36	149	25	240	141	156	24	146	24	163	26	136	30	171	35

ZINC (ug/L) 2001

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	145	28	142	34	124	36	166	29	157	41	188	66	133	25	152	29	111	20	153	26	163	30	142	29
2	124	30	129	36	123	34	141	29	133	39	157	27	141	28	277	30	135	25	142	22	160	24	113	25
3	122	31	138	35	109	33	225	57	160	46	154	39	143	24	269	29	158	37	132	23	124	25	102	21
4	121	31			135	28	142	46	155	42	124	41			204	27	147	35	121	20	134	24	135	21
Average	128	30	136	35	123	33	169	40	151	42	156	43	139	26	226	29	138	29	137	23	145	26	123	24

ZINC (ug/L) 2002

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	140	26	122	29	138	28	134	31	144	28	139	29	172	25	125	18	98	30	110	29	178	32	119	21
2	152	31	158	40	131	25	140	26	144	21	127	21	189	28	130	24	164	81	126	31	122	25	116	23
3	149	33	120	28	148	30	146	29	126	25	161	28	180	27	139	19	154	24	123	41	128	14	121	23
4			140	42	138	26	149	26			112	23	113	22	142	30	116	18	182	33			117	16
Average	147	30	135	35	139	27	142	28	138	25	135	25	164	26	134	23	133	38	135	34	143	24	118	21

AMMONIA (mg/L) 1997

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	29.3	28.2	29.9	29.7	30.5	29.1			28.5	28.3	28.5	27.1	27.9	27.4	26.0	24.5			22.6	20.8	24.4	24.0	24.7	24.3
2	30.2	29.0	27.5	26.6	30.3	30.2	31.5	30.3	30.0	31.1	27.1	26.0	26.6	29.2	30.9	27.0	23.5	20.9	23.3	22.8	24.4	24.7	25.3	25.3
3	28.0	27.6	27.8	26.3	28.8	29.4	30.5	29.7	26.7	27.1	31.5	30.3	23.6	22.9	23.5	24.8	22.8	22.9	24.5	22.0	24.8	23.8	24.7	26.2
4	18.3	19.1	30.4	29.4	31.1	29.6	30.5	30.0	27.5	27.6	27.2	26.9	30.6	30.4	24.4	24.6	22.4	22.2	26.0	26.8	25.1	25.0	25.3	24.7
Average	26.5	26.0	28.9	28.0	30.2	29.6	30.8	30.0	28.2	28.5	28.6	27.6	27.2	27.5	26.2	25.2	22.9	22.0	24.1	23.1	24.7	24.4	25.0	25.1

AMMONIA (mg/L) 1998

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	25.4	25.6	20.5	20.8	24.3	25.9	NA	NA	28.2	27.0	28.3	28.1	25.9	25.4	26.9	25.3	21.3	22.6	18.7	19.1	28.1	29.2	27.3	27.4
2	23.5	22.7	19.7	21.5	25.4	24.6	24.1	24.1	26.0	25.4	27.5	27.2	27.5	27.9	22.9	20.2	22.6	21.3	23.0	21.1	23.3	24.4	27.4	25.7
3	22.5	22.1	17.5	17.5	23.1	26.2	26.7	27.1	27.6	27.5	28.0	28.3	26.2	26.1	27.2	27.1	24.0	23.8	26.7	26.6	26.6	24.5	25.9	25.8
4	25.6	25.2			23.9	24.8	27.9	28.1	26.8	26.8	23.7	22.4			26.9	26.1	20.6	22.4	24.3	24.6	25.8	25.6	28.1	25.0
Average	24.3	23.9	19.2	19.9	24.2	25.4	19.7	19.8	27.2	26.7	26.9	26.5	26.5	26.5	26.0	24.7	22.1	22.5	23.2	22.9	26.0	25.9	27.2	26.0

AMMONIA (mg/L) 1999

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	25.4	24.1	25.0	24.4	27.5	25.1	24.5	23.8	26.3	25.0	30.5	28.7	31.5	30.7	26.7	23.1	15.1	34.0	27.1	27.7	28.5	27.8	31.4	31.0
2	32.2	27.2	27.3	26.7	24.1	25.5	28.3	28.0	26.5	26.3	27.3	25.4	26.4	26.1	27.9	27.1	26.2	24.9	28.2	27.7	30.4	30.4	28.4	28.5
3	27.7	28.4	24.4	20.3	28.6	28.7	27.8	27.9	30.1	27.8	30.7	27.8	26.2	27.6	29.7	27.9	27.8	28.9	26.1	26.6	29.3	29.1	26.4	26.4
4			30.9	28.4	26.5	25.9	28.7	27.3			28.8	26.3	28.8	26.3	25.8	25.3	27.8	20.5	25.3	24.5			29.4	26.7
Average	28.4	26.6	26.9	24.9	26.7	26.3	27.3	26.8	27.6	26.4	29.3	27.1	28.2	27.7	27.5	25.9	24.2	27.1	26.7	26.6	29.4	29.1	28.9	28.2

AMMONIA (mg/L) 2000

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	27.0	27.2	28.4	28.2	26.3	25.9	27.5	28.6	26.9	27.2	28.2	28.6	28.0	27.9	28.9	28.3	27.5	28.1	26.9	26.3	27.3	26.3	28.3	28.8
2	28.1	26.9	29.3	29.1	28.0	27.6	27.7	28.6	29.0	29.4	29.7	28.0	29.0	27.4	27.0	26.5	27.0	28.1	26.7	27.4	26.0	26.9	29.1	29.4
3	26.1	25.6	27.2	25.8	26.9	29.4	28.0	27.9	30.1	29.1	28.4	28.1	28.5	28.8	25.9	25.0	27.0	26.3	27.2	27.0	25.4	27.0	28.7	28.8
4	28.1	28.0	27.7	27.4	28.9	30.4			28.2	27.7	29.6	26.3	28.5	26.6	27.5	27.9			29.1	28.0	28.0	26.9	29.9	29.7
Average	27.3	26.9	28.2	27.6	27.5	28.3	27.3	28.4	28.6	28.4	29.0	27.8	28.5	27.7	27.3	26.9	24.2	27.5	27.5	27.2	26.7	26.8	29.0	29.2

AMMONIA (mg/L) 2001

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	30.2	28.8	29.9	32.5	26.6	26.0	30.3	28.7	29.1	29.1	28.8	28.0	29.4	25.2	30.5	29.7	28.2	27.9	29.8	29.1	28.1	26.9	28.3	27.7
2	24.4	23.0	24.2	24.4	23.5	24.4	27.6	27.9	29.9	29.4	29.8	29.4	30.0	29.7	28.6	29.1	28.4	27.6	28.6	28.6	28.4	27.4	26.3	26.9
3	27.7	27.2	27.0	26.7	26.9	26.6	30.1	30.0	29.2	29.7	29.1	28.6	29.4	28.3	28.4	28.1	30.0	29.4	27.7	27.6	28.9	31.2	29.7	28.3
4	28.5	26.9			27.2	27.2	31.4	31.5	27.5	27.4	28.3	28.0			27.9	25.8	28.8	28.3	29.3	28.1	30.5	29.7	27.6	26.9
Average	27.7	26.5	27.0	27.9	26.1	26.1	29.9	29.5	28.9	28.9	29.0	28.5	29.6	27.7	28.9	28.2	28.9	28.3	28.9	28.4	29.0	28.8	28.0	27.4

AMMONIA (mg/L) 2002

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	28.0	27.6	30.1	29.8	30.6	29	27.9	28.3	29.4	300.8	27.2	26.0	28	26.3	29.3	29.0	26.3	26	28.0	26.6	28.6	29.1	25.8	25.2
2	30.8	29.8	26.5	25.2	30.4	30.5	28.6	28.0	31.6	31.4	27.2	26.3	27.4	25.5	28.6	27.2	26.3	27.4	27.2	26.3	27.2	26.9	26.6	26.3
3	31.2	30.7	27.7	26	28.3	27.3	31.9	30.2	28.3	27.7	27.7	25.8	28.8	28.3	29.7	29.4	26.3	26.9	27.4	26.9	27.2	27.4	26.9	26.3
4			28.8	27.4	28.3	29.1	30.0	29.7			27.7	27.4	27.4	27.2	27.6	28.0	27.7	27.2	30.0	29.4			28.0	27.2
Average	30.3	29.4	28.3	27.1	29.4	29.0	29.6	29.1	29.8	30.0	27.5	26.4	27.9	26.8	28.8	28.4	26.7	26.9	28.2	27.3	27.7	27.8	26.8	26.3

CYANIDE (mg/L) 1997

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	0.002	0.002	0.003	0.006	0.003	0.005	0.002	<0.002	0.004	0.090	0.004	0.005	0.002	0.006	0.003	0.002	0.006	0.015	0.003	0.008	0.003	0.007	0.008	0.005
2	<0.002	0.003	0.003	0.003	0.002	0.003	0.003	0.003	<0.002	0.003	0.005	0.015	0.003	0.034	0.003	0.003	0.003	0.002	0.004	0.018	0.002	0.007	0.008	0.007
3	0.002	0.007	0.003	0.005	0.003	0.003	0.004	0.003	0.004	0.003	0.004	0.007	0.002	0.006	0.003	0.005	0.004	0.004	0.005	0.013	0.006	0.007	0.004	0.005
4	0.002	0.003	0.003	0.005	0.004	0.005			0.003	0.005	0.003	0.006	0.004	0.008	0.004	0.008			0.005	0.008	0.007	0.007	0.005	0.005
Average	0.002	0.004	0.003	0.005	0.003	0.004	0.003	0.002	0.003	0.025	0.004	0.008	0.003	0.013	0.003	0.004	0.004	0.007	0.004	0.012	0.005	0.007	0.006	0.005

CYANIDE (mg/L) 1998

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	0.003	0.004	0.002	<0.002	0.003	0.004	0.008	0.009	0.004	0.004	0.004	0.012	0.003	0.007	0.007	0.008	0.003	0.003	0.004	0.010	0.004	0.004	0.004	0.004
2	0.003	0.005	0.003	0.003	0.004	0.004	0.002	0.003	0.005	0.005	0.004	0.007	0.004	0.004	0.009	0.006	0.003	0.002	0.004	0.003	0.009	0.006	0.005	0.005
3	0.005	0.003	0.002	0.003	0.007	0.013	0.002	<0.002	0.004	0.005	0.004	0.003	0.004	0.004	0.004	0.009	0.026	0.018	0.010	0.008	0.004	0.003	0.005	0.005
4	0.004	0.004			0.008	0.009	0.003	0.002	0.005	0.008	0.006	0.004			0.005	0.004	0.006	0.009	0.004	0.004	0.003	0.003	0.004	0.006
Average	0.004	0.004	0.002	0.002	0.006	0.007	0.004	0.004	0.005	0.005	0.005	0.006	0.004	0.005	0.006	0.007	0.010	0.008	0.006	0.006	0.005	0.004	0.005	0.005

CYANIDE (mg/L) 1999

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	0.004	0.009	0.004	0.006	0.005	0.005	0.003	0.003	0.004	0.003	0.003	0.004	0.003	0.007	0.004	0.004	<0.002	<0.002	0.013	0.014	0.003	0.010	0.003	0.004
2	0.003	0.007	0.005	0.007	0.008	0.011	0.003	0.003	0.003	0.003	0.004	0.004	0.003	<0.002	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.006	0.005	0.004
3	0.003	0.007	0.004	0.005	0.002	0.003	0.003	0.005	0.003	0.004	0.006	0.007	0.004	0.004	<0.002	0.005	0.004	0.001	0.004	0.004	0.003	0.005	0.006	0.007
4			0.005	0.007	0.003	0.002	0.007	0.005			0.019	0.017	0.005	0.003	<0.002	<0.002	0.008	0.006	0.003	0.003			0.004	0.003
Average	0.003	0.008	0.005	0.006	0.005	0.005	0.004	0.004	0.003	0.003	0.008	0.008	0.004	0.003	0.002	0.003	0.004	0.003	0.006	0.006	0.003	0.007	0.005	0.005

CYANIDE (mg/L) 2000

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	0.006	0.005	0.004	0.003	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.005	0.006	0.004	0.004	0.004	0.003	0.013	0.014	0.004	0.003	0.002	0.003
2	0.004	0.004	0.007	0.006	0.004	0.003	0.004	0.003	0.005	0.004	0.004	0.004	0.002	0.003	0.003	0.003	0.005	0.003	0.005	0.004	0.004	0.004	0.003	0.003
3	0.003	0.003	0.003	0.013	0.005	0.004	0.004	0.003	0.003	0.005	0.003	0.006	0.003	0.003	0.004	0.003	0.003	0.003	0.004	0.004	0.004	0.003	0.007	0.006
4	0.004	0.003	0.004	0.003	0.005	0.005			0.003	0.002	0.004	0.006	0.039	0.003	0.002	0.003			0.003	0.003	0.003	0.003	0.003	0.003
Average	0.004	0.004	0.005	0.006	0.005	0.004	0.004	0.003	0.004	0.004	0.004	0.005	0.012	0.004	0.003	0.003	0.004	0.003	0.006	0.006	0.004	0.003	0.004	0.005

CYANIDE (mg/L) 2001

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	0.005	0.005	0.006	0.006	0.006	0.005	0.003	0.004	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.003	<0.002	0.002	< 0.002	0.003	0.003	0.004	0.003
2	0.004	0.004	0.004	0.003	0.003	0.004	0.004	0.004	0.002	0.003	0.003	0.003	0.003	0.003	0.005	0.005	0.003	0.003	<0.002	<0.002	0.003	0.003	0.004	0.003
3	0.003	0.003	0.006	0.006	0.004	0.004	0.002	0.003	0.007	0.009	0.003	0.003	0.003	0.003	<0.002	<0.002	<0.002	0.002	0.003	0.003	0.003	0.003	<0.002	<0.002
4	0.003	0.003			0.004	0.003	0.002	0.003	0.002	0.003	0.004	0.003			<0.002	<0.002	<0.002	0.002	<0.002	<0.002	0.003	0.003	<0.002	<0.002
Average	0.004	0.004	0.005	0.005	0.004	0.004	0.003	0.004	0.003	0.005	0.003	0.003	0.003	0.003	0.002	0.003	0.003	0.002	0.001	0.003	0.003	0.003	0.002	0.002

CYANIDE (mg/L) 2002

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	0.003	0.002	0.010	0.009			0.003	0.003	0.005	0.005	0.004	0.003	0.003	0.002	0.002	0.003	0.003	0.003	0.002	0.002	0.003	0.003	0.003	0.003
2	0.004	0.003	0.007	0.006	0.004	0.006	0.002	0.003	0.006	0.007	0.002	0.002	0.003	0.003	0.003	0.002	0.005	0.003	0.003	0.003	0.003	0.003	0.003	0.002
3	0.006	0.010	0.004	0.004	0.003	0.004	0.003	0.003	0.005	0.004	0.003	<0.002	0.004	0.005	<0.002	0.002	0.004	0.004	0.002	0.002	0.003	0.003	0.002	0.002
4			0.004	0.009	0.003	0.004	0.003	0.003			0.003	0.003	0.003	0.002	0.003	0.003	0.004	0.003	0.003	0.003			0.002	<0.002
Average	0.004	0.005	0.006	0.007	0.003	0.005	0.003	0.003	0.005	0.005	0.003	0.002	0.003	0.003	0.002	0.003	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.002

EFFLUENT RADIATION (pCi/L) 1997

Week	JAN alpha	JAN beta	FEB alpha	FEB beta	MAR alpha	MAR beta	APR alpha	APR beta	MAY alpha	MAY beta	JUN alpha	JUN beta	JUL alpha	JUL beta	AUG alpha	AUG beta	SEP alpha	SEP beta	OCT alpha	OCT beta	NOV alpha	NOV beta	DEC alpha	DEC beta
1																								
2	2.2	23.8	0.9	25.4	1.3	28.9	1.2	28.2	0.2	31.2	0.9	23.9	2.6	32.1	0.7	33.9	2.9	33.2	6.7	25.3	2.2	27.9	2.9	30.0
3																								
4																								
Average	2.2	23.8	0.9	25.4	1.3	28.9	1.2	28.2	0.2	31.2	0.9	23.9	2.6	32.1	0.7	33.9	2.9	33.2	6.7	25.3	2.2	27.9	2.9	30.0

EFFLUENT RADIATION (pCi/L) 1998

Week	JAN alpha	JAN beta	FEB alpha	FEB beta	MAR alpha	MAR beta	APR alpha	APR beta	MAY alpha	MAY beta	JUN alpha	JUN beta	JUL alpha	JUL beta	AUG alpha	AUG beta	SEP alpha	SEP beta	OCT alpha	OCT beta	NOV alpha	NOV beta	DEC alpha	DEC beta
1																								
2	2.3	33.1	1.4	23.4	1.5	21.5	2.8	19.2	3.3	48.0	4.8	28.6	2.8	32.5	3.8	21.0	0.3	33.7	1.5	16.7	1.4	26.0	1.4	27.0
3																								
4																								
Average	2.3	33.1	1.4	23.4	1.5	21.5	2.8	19.2	3.3	48.0	4.8	28.6	2.8	32.5	3.8	21.0	0.3	33.7	1.5	16.7	1.4	26.0	1.4	27.0

EFFLUENT RADIATION (pCi/L) 1999

Week	JAN alpha	JAN beta	FEB alpha	FEB beta	MAR alpha	MAR beta	APR alpha	APR beta	MAY alpha	MAY beta	JUN alpha	JUN beta	JUL alpha	JUL beta	AUG alpha	AUG beta	SEP alpha	SEP beta	OCT alpha	OCT beta	NOV alpha	NOV beta	DEC alpha	DEC beta
1			1.4	26.1	2.8	18.7	4.2	28.9			1.7	29.2	0.7	21.7	0.7	21.7			2.0	43.4			4.3	31.8
2	1.5	30.1							-0.2	41.5							0.3	36.7			1.0	34.0		
3																								
4																								
Average	1.5	30.1	1.4	26.1	2.8	18.7	4.2	28.9	-0.2	41.5	1.7	29.2	0.7	21.7	0.7	21.7	0.3	36.7	2.0	43.4	1.0	34.0	4.3	31.8

EFFLUENT RADIATION (pCi/L) 2000

Week	JAN alpha	JAN beta	FEB alpha	FEB beta	MAR alpha	MAR beta	APR alpha	APR beta	MAY alpha	MAY beta	JUN alpha	JUN beta	JUL alpha	JUL beta	AUG alpha	AUG beta	SEP alpha	SEP beta	OCT alpha	OCT beta	NOV alpha	NOV beta	DEC alpha	DEC beta
1	3.1	29.6			2.5	32.9			2.8	36.4	1.8	28.1	3.3	33.7			1.3	36.2			0.7	25.2	1.7	29.2
2			1.9	35.8			2.0	30.4							2.5	34.6								
3																			1.8	31.9				
4																								
Average	3.1	29.6	1.9	35.8	2.5	32.9	2.0	30.4	2.8	36.4	1.8	28.1	3.3	33.7	2.5	34.6	1.3	36.2	1.8	31.9	0.7	25.2	1.7	29.2

EFFLUENT RADIATION (pCi/L) 2001

Week	JAN alpha	JAN beta	FEB alpha	FEB beta	MAR alpha	MAR beta	APR alpha	APR beta	MAY alpha	MAY beta	JUN alpha	JUN beta	JUL alpha	JUL beta	AUG alpha	AUG beta	SEP alpha	SEP beta	OCT alpha	OCT beta	NOV alpha	NOV beta	DEC alpha	DEC beta
1	0.3	28.0	2.1	37.0	2.6	30.7	1.6	26.3			0.8	31.2			0.6	31.1	1.0	37.4			1.4	29.9	2.9	29.2
2									1.7	37.2			0.9	33.4					1.8	35.3				
3																								
4																								
Average	0.3	28.0	2.1	37.0	2.6	30.7	1.6	26.3	1.7	37.2	0.8	31.2	0.9	33.4	0.6	31.1	1.0	37.4	1.8	35.3	1.4	29.9	2.9	29.2

EFFLUENT RADIATION (pCi/L) 2002

Week	JAN alpha	JAN beta	FEB alpha	FEB beta	MAR alpha	MAR beta	APR alpha	APR beta	MAY alpha	MAY beta	JUN alpha	JUN beta	JUL alpha	JUL beta	AUG alpha	AUG beta	SEP alpha	SEP beta	OCT alpha	OCT beta	NOV alpha	NOV beta	DEC alpha	DEC beta
1	2.7	28.5	1.5	37.1	1.6	33.4	1.9	32.5	1.9	13.3	1.2	35.7	0.7	21.5			0.1	27.9	1.5	14.9	1.3	25.5	0.8	14.9
2															1.8	12.2								
3																								
4																								
Average	2.7	28.5	1.5	37.1	1.6	33.4	1.9	32.5	1.9	13.3	1.2	35.7	0.7	21.5	1.8	12.2	0.1	27.9	1.5	14.9	1.3	25.5	0.8	14.9

ALDRIN AND DIELDRIN (ng/L) 1997

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd
Average	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

ALDRIN AND DIELDRIN (ng/L) 1998

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd			nd	nd	nd	nd	nd	nd					nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Average	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

ALDRIN AND DIELDRIN (ng/L) 1999

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4			nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd			nd	nd
Average	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

ALDRIN AND DIELDRIN (ng/L) 2000

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd
Average	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

ALDRIN AND DIELDRIN (ng/L) 2001

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	NA	nd	nd	nd	nd	nd	nd	nd
2	NA	NA	nd	nd	NA	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Average	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

ALDRIN AND DIELDRIN (ng/L) 2002

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4			nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd			nd	nd
Average	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

ENDRIN (ng/L) 1997

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd
Average	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

ENDRIN (ng/L) 1998

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd			nd	nd	nd	nd	nd	nd					nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Average	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

ENDRIN (ng/L) 1999

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4			nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd			nd	nd
Average	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

ENDRIN (ng/L) 2000

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd
Average	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

ENDRIN (ng/L) 2001

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	NA	nd	nd	nd	nd	nd	nd	nd
2	NA	NA	nd	nd	NA	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Average	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

ENDRIN (ng/L) 2002

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4			nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd			nd	nd
Average	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

HCH-HEXACHLOROCYCLOHEXANES (ng/L) 1997

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	71	67	51	47	59	61	50	30	nd	nd	60	28	65	39	62	36	57	48	50	39	55	33	57	36
2	68	78	72	50	51	50	44	36	nd	nd	76	25	80	40	63	58	64	44	53	35	54	30	47	27
3	85	50	76	63	70	62	47	27	60	24	83	31	73	35	59	32	160	120	69	33	50	43	71	43
4	52	41	97	85	41	59			47	13	75	33	70	34	65	40			47	31	64	40	41	29
Average	69	59	74	61	55	58	47	31	27	9	74	29	72	37	62	42	94	71	55	35	56	37	54	34

HCH-HEXACHLOROCYCLOHEXANES (ng/L) 1998

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	45	30	37	26	37	29	46	24	24	34	28	32	46	48	66	33	44	26	68	27	43	24	32	27
2	61	37	45	29	39	33	28	21	32	27	53	32	45	34	55	31	42	31	53	35	49	27	32	21
3	54	39	29	25	49	27	30	26	39	42	37	36	42	37	56	30	42	25	57	25	43	29	30	21
4	47	32			46	25	42	30	36	32					54	34	45	28	50	25	31	21	34	26
Average	52	35	37	27	43	29	37	25	33	34	39	33	44	40	58	32	43	28	57	28	42	25	32	24

HCH-HEXACHLOROCYCLOHEXANES (ng/L) 1999

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	32	23	28	16	22	15	70	37	15	11	38	32	41	25	42	26	41	30	68	36	44	27	34	18
2	26	23	26	22	20	15	25	18	15	13	63	36	38	29	50	35	50	33	44	27	47	25	57	60
3	29	20	33	21	15	14	24	17	31	22	34	25	38	26	43	24	45	29	40	30	36	24	39	20
4			39	17	22	12	21	18			43	31	39	33	57	26	96	39	48	26			31	13
Average	29	22	32	19	20	14	35	23	20	15	45	31	39	28	48	28	58	33	50	30	42	25	40	28

HCH-HEXACHLOROCYCLOHEXANES (ng/L) 2000

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	46	17	27	19	16	14	31	11	44	26	57	27	41	30	36	19	37	23	56	26	24	17	73	29
2	41	25	30	18	25	19	15	11	32	34	42	22	29	17	37	19	34	17	31	20	46	27	62	nd
3	42	22	32	17	33	19	31	13	48	28	41	23	23	19	52	25	25	15	37	24	60	25	60	20
4	24	18	50	20	24	16			46	26	42	25	22	15	46	26			34	24	36	35	53	21
Average	38	21	35	19	25	17	26	12	43	29	46	24	29	20	43	22	32	18	40	24	42	26	62	18

HCH-HEXACHLOROCYCLOHEXANES (ng/L) 2001

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	51	22	37	17	26	14	51	13	38	21	NA	28	30	15	38	21	NA	18	35	18	50	15	58	19
2	0	0	32	14	NA	15	55	19	47	14	20	14	24	16	40	14	59	19	42	13	21	15	38	18
3	42	17	36	0	34	12	43	12	47	17	38	18	28	38	44	16	54	15	49	20	38	21	0	0
4	30	0			18	11	49	15	43	21	54	27			61	26	49	19	46	13	70	11	68	24
Average	31	10	35	10	26	13	50	15	44	18	37	22	27	23	46	19	41	18	43	16	45	16	41	15

HCH-HEXACHLOROCYCLOHEXANES (ng/L) 2002

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	39	18	35	17	26	21	31	13	nd	nd	36	nd	23	nd	45	16	16	nd	26	nd	14	nd	nd	nd
2	47	14	40	nd	19	15	24	nd	nd	nd	36	nd	32	nd	nd	nd	20	nd	48	22	13	13	nd	nd
3	45	17	33	15	40	nd	31	19	14	14	36	18	28	nd	50	12	27	20	99	24	10	nd	nd	nd
4			38	16	45	15	29	14			30	nd	33	nd	18	16	28	12	11	nd			nd	nd
Average	44	16	37	12	33	13	29	12	7	5	35	5	29	nd	28	11	23	8	46	12	12	4	nd	nd

CHLORDANE & RELATED COMPOUNDS (ng/L) 1997

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	50	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	100	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd
Average	nd	nd	25	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	13	nd	nd	nd	nd	nd	nd	nd	nd	nd

CHLORDANE & RELATED COMPOUNDS (ng/L) 1998

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd			nd	nd	nd	nd	nd	nd					nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Average	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

CHLORDANE & RELATED COMPOUNDS (ng/L) 1999

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4			nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd			nd	nd
Average	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

CHLORDANE & RELATED COMPOUNDS (ng/L) 2000

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	77	210	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd
Average	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	19	53	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

CHLORDANE & RELATED COMPOUNDS (ng/L) 2001

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	NA	nd	nd	nd	nd	nd	NA	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	NA	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Average	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

CHLORDANE & RELATED COMPOUNDS (ng/L) 2002

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4			nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	215	nd			nd	nd
Average	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	54	nd	nd	nd	nd	nd

PCBs-POLYCHLORINATED BIPHENYLS (ng/L) 1997

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd
Average	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

PCBs-POLYCHLORINATED BIPHENYLS (ng/L) 1998

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd			nd	nd	nd	nd	nd	nd					nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Average	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

PCBs-POLYCHLORINATED BIPHENYLS (ng/L) 1999

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4			nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd			nd	nd
Average	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

PCBs-POLYCHLORINATED BIPHENYLS (ng/L) 2000

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Average	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

PCBs-POLYCHLORINATED BIPHENYLS (ng/L) 2001

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	NA	nd	nd	nd	nd	nd	NA	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	NA	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Average	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

PCBs-POLYCHLORINATED BIPHENYLS (ng/L) 2002

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4			nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd			nd	nd
Average	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

DDT AND DERIVATIVES (ng/L) 1997

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd
Average	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

DDT AND DERIVATIVES (ng/L) 1998

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd			nd	nd	nd	nd	nd	nd					nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Average	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

DDT AND DERIVATIVES (ng/L) 1999

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	52	nd	nd	nd	nd	nd	nd	nd
4			nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd			nd	nd
Average	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	13	nd	nd	nd	nd	nd	nd	nd

DDT AND DERIVATIVES (ng/L) 2000

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	92	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd	45	50	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd
Average	nd	23	11	13	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

DDT AND DERIVATIVES (ng/L) 2001

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	NA	nd	nd	nd	nd	nd	NA	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	NA	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Average	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

DDT AND DERIVATIVES (ng/L) 2002

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	50	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	37	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4			nd	nd	46	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd			nd	nd
Average	29	nd	nd	nd	12	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

TOXAPHENE (ng/L) 1997

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd	nd	nd	nd	nd			nd	nd			nd	nd	nd	nd			nd	nd	nd	nd	nd	nd
Average	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

TOXAPHENE (ng/L) 1998

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd			nd	nd	nd	nd	nd	nd					nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Average	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

TOXAPHENE (ng/L) 1999

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4			nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd			nd	nd
Average	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

TOXAPHENE (ng/L) 2000

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd
Average	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

TOXAPHENE (ng/L) 2001

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	NA	nd	nd	nd	nd	nd	NA	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	NA	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Average	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

TOXAPHENE (ng/L) 2002

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4			nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd			nd	nd
Average	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

CHLORINATED PHENOLIC COMPOUNDS (ug/L) 1997

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd	nd	nd	nd	nd			nd	nd	NA	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd
Average	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

CHLORINATED PHENOLIC COMPOUNDS (ug/L) 1998

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Average	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

CHLORINATED PHENOLIC COMPOUNDS (ug/L) 1999

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4			nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd			nd	nd
Average	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2000

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd
Average	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2001

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd		nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd			nd	nd			nd		nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Average	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2002

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4			nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd			nd	nd
Average	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 1997

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	21.0	14.5	16.3	16.8	9.4	12.5	14.5	nd	14.2	11.4	17.1	16.1	12.7	10.1	20.9	8.6	14.4	12.8	12.1	15.4	23.1	17.0	16.3	14.4
2	12.3	5.9	19.9	14.4	18.2	16.5	6.1	3.8	13.8	12.4	19.1	16.0	12.1	11.6	22.0	20.9	nd	18.9	16.7	15.9	13.5	13.6	16.2	16.7
3	13.1	10.3	3.0	6.6	8.4	6.7	21.6	15.2	21.6	15.4	14.5	12.8	12.0	9.3	12.5	12.3	18.2	17.8	12.8	11.9	23.6	18.4	12.0	12.4
4	8.8	7.4	12.0	13.2	6.5	6.1			17.9	15.9	NA	9.0	14.2	15.3	20.2	21.4			12.8	13.4	16.4	14.4	16.2	15.2
Average	13.8	9.5	12.8	12.8	10.6	10.5	14.1	6.3	16.9	13.8	16.9	13.5	12.8	11.6	18.9	15.8	10.9	16.5	13.6	14.2	19.2	15.9	15.2	14.7

NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 1998

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	13.3	15.9	9.1	10.9	14.9	14.6	11.7	12.3	15.9	18.0	19.0	13.1	15.0	16.5	11.1	7.6	10.5	9.4	11.0	9.2	12.0	9.2	15.1	12.5
2	15.7	17.4	7.1	5.6	16.9	14.5	15.7	14.9	14.0	15.6	15.0	15.9	14.9	13.1	5.2	3.4	5.8	9.1	13.8	9.4	13.4	10.1	12	11.8
3	27.1	21.3	11.3	13.3	18.9	17.8	14.1	16.8	11.9	13.1	18.7	19.9	14.3	12.8	12.2	8.8	16.4	12.6	10.1	8.8	16.2	12.8	15.9	10.2
4	25.2	22.4			14.3	10.2	26.9	25.0	17.4	16.5	16.6	17.2			13.0	12.3	12.6	11.5	11.9	10.1	11.5	7.8	12.3	8.7
Average	20.3	19.3	9.2	9.9	16.3	14.3	17.1	17.3	14.8	15.8	17.3	16.5	14.7	14.1	10.4	8.0	11.3	10.7	11.7	9.4	13.3	10.0	13.8	10.8

NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 1999

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	15.1	11.1	14.8	11.9	15.5	11.6	17.1	11.8	12.7	8.0	19.9	10.6	24.3	15.6	21.5	8.1	16.1	11.3	13.8	12.0	18.2	10.8	13.2	9.9
2	15.6	10.8	23.6	13.4	13.9	9.6	15.6	11.4	14.6	7.8	21.6	13.1	16.9	10.8	22.7	14.5	19.2	15.3	17.9	15.7	15.9	12.3	21.3	17.0
3	15.9	11.0	18.9	13.8	13.5	8.3	19.5	12.4	6.5	10.9	18.0	11.1	21.8	13.8	17.0	14.9	16.4	14.3	16.6	8.9	19.4	12.0	16.1	11.7
4			16.7	8.6	24.4	14.2	15.5	12.0			15.8	8.7	18.6	14.5	15.5	12.3	16.1	14.5	15.5	8.5			18.6	11.1
Average	15.5	11.0	18.5	11.9	16.8	10.9	16.9	11.9	11.3	8.9	18.8	10.9	20.4	13.7	19.2	12.5	17.0	13.9	16.0	11.3	17.8	11.7	17.3	12.4

NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2000

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	13.8	9.0	20.7	12.6	13.1	10.4	13.8	8.2	12.9	11.3	7.7	6.3	24.3	20.3	22.9	16.1	15.2	10.3	15.6	10.9	21.5	14.4	11.0	8.5
2	26.6	16.9	18.5	14.1	11.9	10.0	13.9	7.8	12.9	10.0	8.8	6.7	21.4	18.9	16.5	10.8	13.6	10.3	16.6	10.6	*	7.7	13.8	11.5
3	18.9	14.9	15.9	9.9	10.4	9.1	15.3	12.1	17.2	15.4	24.3	11.6	20.2	18.0	18.2	11.2	21.4	15.4	16.2	11.9	18.7	14.4	20.3	14.6
4	19.1	12.0	13.9	9.1	16.8	10.5			6.9	7.7	16.9	13.4	21.5	12.7	12.1	9.5			15.2	11.1	11.6	8.6	19.6	14
Average	19.6	13.2	17.3	11.4	13.1	10.0	14.3	9.4	12.5	11.1	14.4	9.5	21.6	17.5	17.4	11.9	16.7	12.0	15.9	11.1	17.3	11.3	16.2	12.2

NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2001

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	17.3	13.7	22.9	23.0	12.1	7.0	21.6	24.3	17.9	18.4	25.8	15.5	19.1	10.5	16.4	11.5	14.8	6.3	13.3	8.5	15.2	12.4	19.1	8.4
2	11.5	8.5	11.6	6.6	11.3	8.0	22.0	12.4	14.7	9.8	17.9	12.0	15.2	5.0	18.9	8.9	15.8	8.5	10.4	10.3	16.6	11.6	13.6	9.8
3	13.9	9.5	15.4	15.1	15.1	13.7		13.7	19.1	13.1	12.7	7.4	15.5	10.1	14.8	9.9	16.1	6.6	12.9	6.1	25.1	10.3	12.2	7.8
4	19.5	16.1			21.3	7.8				8.8	16.7	7.9			14.5	9.7	17.5	9.2	12.8	10.0	23.1	13.6	19.8	12.5
Average	15.6	12.0	16.6	14.9	15.0	9.1	21.8	16.8	17.2	12.5	18.3	10.7	16.6	8.5	16.2	10.0	16.1	7.7	12.4	8.7	20.0	12.0	16.2	9.6

NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2002

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	22.5	15.1	19.3	19.9	20.1	19.5	22.6	17.1	16.6	14.6	17.8	11.2	15.9	7.4	14.4	8.8	14.7	9.3	13.9	9.7	15.7	8.2	17	9.1
2	19	14.1	14.8	13.2	14.9	13.2	15	13.1	12.7	11.9	13.2	7	11.3	9.4	13.4	7.7	12.6	7.8	16.1	8	12.3	7.1	9.9	9.4
3	15.9	15.3	14.2	12.3	14.7	17.1	17.3	15.7	13.9	11.1	13.1	15.7	13.3	9.8	11.8	9	11.4	6.5	13.8	9.8	9.2	7.4	9.4	7.5
4			19.6	20.2	6.3	0	11.9	12.9			18	10.3	10.3	7.9	8.9	8.2	13.7	8.1	10.3	6.8			18	15.3
Average	19.1	14.8	17	16.4	14	12.5	16.7	14.7	14.4	12.5	15.5	11.1	12.7	8.6	12.1	8.4	13.1	7.9	13.5	8.6	12.4	7.6	13.6	10.3